

This section of the Plan includes the listing of the mitigation actions proposed by the jurisdictions participating in the development of this Plan. It has been designed to achieve the mitigation goals and priorities established in the region wide, multi-jurisdictional Mitigation Strategy (see Section 7: *Mitigation Strategy*), as well as the objectives of each individual jurisdiction.

The mitigation actions proposed for local adoption by each participating local governing bodies are listed in eight (8) individual Mitigation Action Plans (MAPs) on the pages that follow according to **Table AA.1**. They will be implemented and maintained on a regular basis according to the plan maintenance procedures established for the Southside Hampton Roads Regional Hazard Mitigation Plan (see Section 8: *Plan Maintenance Procedures*).

<b>TABLE AA.1: SOUTHSIDE HAMPTON ROADS MITIGATION ACTION PLANS</b>		
<b>JURISDICTION</b>	<b>NUMBER OF MITIGATION ACTIONS</b>	<b>PAGE NUMBER</b>
Southside Hampton Roads Regional Mitigation Actions	<b>1</b>	<b>4</b>
Isle of Wight County	<b>12</b>	<b>5</b>
Norfolk	<b>13</b>	<b>18</b>
Portsmouth	<b>5</b>	<b>38</b>
Smithfield	<b>2</b>	<b>44</b>
Suffolk	<b>3</b>	<b>47</b>
Virginia Beach	<b>27</b>	<b>51</b>
Windsor	<b>1</b>	<b>81</b>

As described in the previous section, each jurisdiction's MAP represents an unambiguous and functional plan for action. Each proposed mitigation action has been identified as an effective measure (policy or project) to reduce hazard risk in the Southside Hampton Roads region. Each action is listed in the MAP in conjunction with background information such as the specific site and location of the project and the history of damages, if applicable.

Other information provided in the MAP includes data on cost estimates and potential funding sources to implement the action should funding be required (not all proposed actions are contingent upon funding). Most importantly, implementation mechanisms are provided for each action, including the designation of a lead agency or department responsible for carrying the action out as well as a timeframe for its completion. These implementation mechanisms ensure that the Southside Hampton Roads Regional Hazard Mitigation Plan remains a functional document that can be monitored for progress over time. For each MAP, the proposed actions are not listed in exact priority order though each has been assigned a priority level of "high," "moderate" or "low" as described in the previous section.

**Table AA.2** describes the key elements of the Mitigation Action Plan, and **Table AA.3** lists the additional considerations that were evaluated for each proposed action once selected for inclusion in the Mitigation Action Plan. This includes social, technical, administrative, political, legal, economic and environmental considerations collectively know as "STAPLEE" evaluation criteria.

## LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK

Jurisdiction: Southside Hampton Roads Region

**TABLE AA.2: KEY ELEMENTS OF THE MITIGATION ACTION PLAN**

<b>Proposed Action</b>	Identifies a specific action that, if accomplished, will reduce vulnerability and risk in the impact area. Actions may be in the form of local policies (i.e., regulatory or incentive-based measures), programs or structural mitigation projects and should be consistent with any pre-identified mitigation goals and objectives.
<b>Site and Location</b>	Provides details with regard to the physical location or geographic extent of the proposed action, such as the location of a specific structure to be mitigated, whether a program will be citywide, countywide or regional, etc.
<b>History of Damages</b>	Provides a brief history of any known damages as it relates to the proposed action and the hazard(s) being addressed. For example, the proposed elevation of a repetitive loss property should include an overview of the number of times the structure has flooded, total dollar amount of damages, if available, etc.
<b>Hazard(s) Addressed</b>	Lists the hazard(s) the proposed action is designed to mitigate against.
<b>Goal(s) Addressed</b>	Indicates the Plan's established mitigation goal(s) the proposed action is designed to help achieve.
<b>Priority</b>	Indicates whether the action is a "high" priority, "moderate" priority, or "low" priority based on the established prioritization criteria.
<b>Estimated Cost</b>	If applicable, indicates what the total cost will be to accomplish this action. This amount will be an estimate until actual final dollar amounts can be determined. Some actions (such as ordinance revisions) may only cost "local staff time" and should be noted so.
<b>Potential Funding Sources</b>	If applicable, indicates how the cost to complete the action will be funded. For example, funds may be provided from existing operating budgets or general funds, a previously established contingency fund, a cost-sharing federal or state grant program, etc.
<b>Lead Agency/Department Responsible</b>	Identifies the local agency, department or organization that is best suited to implement the proposed action.
<b>Implementation Schedule</b>	Indicate when the action will begin and when it is to be completed. Remember that some actions will require only a minimal amount of time, while others may require a long-term or continuous effort.

**TABLE AA.3: ADDITIONAL CONSIDERATIONS (STAPLEE EVALUATION)**

<b>Socially Acceptable</b>	Is the proposed action socially acceptable to the community? Is the action compatible with present and future community values? Are there equity issues involved that would mean that one segment of the community is adversely affected?
<b>Technically Feasible</b>	Will the proposed action serve as a long term solution? Will it create any negative secondary impacts? Are there any foreseeable problems or technical constraints that could limit its effectiveness?
<b>Administratively Possible</b>	Does the community have the capability to implement the proposed action? Is there someone available to coordinate and sustain the effort?
<b>Politically Acceptable</b>	Is there political support to implement the proposed action? Is there enough public support to ensure the success of the action?
<b>Legal</b>	Is the community authorized to implement the proposed action? Is there a clear legal basis or precedent for the action? Are there any potential legal consequences of the action?
<b>Economically Sound</b>	What are the costs and benefits of the proposed action? Does the cost seem reasonable for the size of the problem and the estimated benefits? Are there funding sources available to help offset costs of the action? Is the action compatible with other economic goals of the community?
<b>Environmentally Sound</b>	How will the action impact the environment (natural resources, ecosystems, endangered species, etc.)? Will the action require any environmental regulatory approvals? Is the action consistent with other environmental goals of the community?

## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

---

Jurisdiction: Southside Hampton Roads Region

---

### **Key to Potential Funding Sources:**

- DHS      U.S. Department of Homeland Security**
- **PDM** – Predisaster Mitigation Program
  - **HMGP** – Hazard Mitigation Grant Program
  - **FMA** – Flood Mitigation Assistance Program
  - **BZPP** – Buffer Zone Protection Program
  - **HGSP** – Homeland Security Grant Program
  - **TSGP** – Transit Security Grant Program
  - **PA** – Public Assistance Program
  - **NEHRP** – National Earthquake Hazards Reduction Program
  - **AFGP** – Assistance to Firefighters Grant Program
  - **FMAg** – Fire Management Assistance Grants
- USACE    U.S. Army Corps of Engineers**
- **FCW/EW** – Flood Control Works/Emergency Rehabilitation
  - **ESSP** – Emergency Streambank and Shoreline Protection
  - **SFCP** – Small Flood Control Projects
- DOI      U.S. Department of the Interior**
- **LWCF** – Land and Water Conservation Fund Grants
- EDA      U.S. Economic Development Administration**
- **DMTA** – Disaster Mitigation and Technical Assistance Grants
- EPA      U.S. Environmental Protection Agency**
- **CWA** – Clean Water Act Section 319 Grants
- HUD      U.S. Department of Housing and Urban Development**
- **CDBG** – Community Development Grant Program
- SBA      U.S. Small Business Administration**
- **PDMLP** – Pre-Disaster Mitigation Loan Program
- USDA    U.S. Department of Agriculture**
- **EWP** – Emergency Watershed Protection
  - **WPFP** – Watershed Protection and Flood Prevention
  - **WSP** – Watershed Surveys and Planning

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**SOUTHSIDE HAMPTON ROADS, REGIONAL MITIGATION ACTION 1**

Continue to participate in the National Flood Insurance Program and enforce, at least, the minimum standards of the program.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	All participating jurisdictions
<b>History of Damages:</b>	As the risk assessment sections of this Plan document, flooding is a high-risk hazard in the region with a frequent history of occurrences.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flood
<b>Category/Goal(s) Addressed:</b>	Prevention
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	N/A
<b>Potential Funding Sources:</b>	None needed
<b>Lead Agency/Department Responsible:</b>	Governing bodies of each jurisdiction
<b>Implementation Schedule:</b>	Ongoing

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

This action has been included to ensure that each jurisdiction remains dedicated to participating in the National Flood Insurance Program.

# Isle of Wight County

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 1**

Acquire property in flood prone coastal high hazard area having suffered repetitive damage due to reoccurring flooding. There are 17 properties having structures located in the VE floodzone that will be targeted for participation.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Within the VE floodzone along the James River and associated tributaries in Isle of Wight County
<b>History of Damages:</b>	1999 Hurricane Floyd - \$62,000, 2003 Hurricane Isabel - \$476,483 for 12 losses (all floodzones)

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flooding (Coastal)
<b>Category/Goal(s) Addressed:</b>	Structural Project
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	\$3,400,000 (approximately \$200,000/property)
<b>Potential Funding Sources:</b>	Federal Pre-Disaster Mitigation (PDM) and Hazard Mitigation Grant Program (HMGP) funds, State Flood Mitigation Assistance (FMA) Program
<b>Lead Agency/Department Responsible:</b>	Planning and Zoning
<b>Implementation Schedule:</b>	1/2007-1/2010

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

The project will have to be performed in phases as grant funds are made available and to afford feasibility of project timelines/schedules. PDM and FMA (Requires Flood Mitigation Plan to be in place) funding is made available, currently, on a regular bases. PDM has a maximum of \$3,000,000 and FMA has \$400,000 available. Benefits Cost Analysis will be required. HMGP funding is made available post-disaster and only upon Presidential declaration.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 2**

Hire a firm to provide Flood insurance awareness and education for property owners within flood zones. This would include direct mailings and community meetings.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	County-wide, Isle of Wight County
<b>History of Damages:</b>	1999 Hurricane Floyd - \$62,000, 2003 Hurricane Isabel - \$476,483 for 12 losses

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flooding
<b>Category/Goal(s) Addressed:</b>	Public education and awareness
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	\$15,000
<b>Potential Funding Sources:</b>	PDM Grant
<b>Lead Agency/Department Responsible:</b>	Emergency Management
<b>Implementation Schedule:</b>	10/2006 – 6/2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy ▪ 3 = Moderately Satisfies ▪ 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

Of the properties within flood zones A, AE and VE only approximately 240 of these have a NFIP policy in-force, as of September, 2004.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 3**

Elevate structures within flood prone areas having suffered repetitive damage due to reoccurring flooding. There are 374 properties having structures located in the A and AE floodzones that will be targeted for participation.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Within the A and AE floodzones located throughout Isle of Wight County
<b>History of Damages:</b>	1999 Hurricane Floyd - \$62,000, 2003 Hurricane Isabel - \$476,483 for 12 losses (all floodzones)

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flooding
<b>Category/Goal(s) Addressed:</b>	Structural Project
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$3,400,000 per 5 phases of 85 properties
<b>Potential Funding Sources:</b>	PDM and HMGP funds, State FMA
<b>Lead Agency/Department Responsible:</b>	Planning and Zoning
<b>Implementation Schedule:</b>	1/2007-1/2022

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**ADDITIONAL COMMENTS**

The project will have to be performed in phases as grant funds are made available and to afford feasibility of project timelines/schedules. Five phases are expected and each phase shall last three years. PDM and FMA (Requires a Flood Mitigation Plan to be in place) funding is made available, currently, on a regular basis. PDM has a maximum of \$3,000,000 and FMA has \$400,000 available. HMGP funding is made available post-disaster and only upon Presidential declaration.



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 4**

Prepare a County-wide Flood Mitigation Plan in order to document flood mitigation planning and activities that reduce the risk of flood damage to structures. This should also address storm water drainage issues in flood-prone areas.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	County-wide, Isle of Wight County
<b>History of Damages:</b>	1999 Hurricane Floyd - \$62,000, 2003 Hurricane Isabel - \$476,483 for 12 losses (all floodzones)

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flood
<b>Goal(s) Addressed:</b>	Plans and Studies
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	\$50,000
<b>Potential Funding Sources:</b>	PDM
<b>Lead Agency/Department Responsible:</b>	Emergency Mgmt/Planning and Zoning/GIS
<b>Implementation Schedule:</b>	1/2007-12/2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

--------------

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 5**

Upgrade the capacity and pumping equipment at the five proposed County emergency fueling stations. This will ensure that the County will have an adequate fuel supply for County vehicles, especially emergency vehicles and backup generators, and for citizens stranded along the 56 miles of VDOT designated Emergency Evacuation Routes within the County.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	County-wide, Isle of Wight
<b>History of Damages:</b>	

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Hurricane and Tropical Storm, Flooding
<b>Goal(s) Addressed:</b>	Emergency Response
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$150,000
<b>Potential Funding Sources:</b>	PDM
<b>Lead Agency/Department Responsible:</b>	Public Works
<b>Implementation Schedule:</b>	1/2007 – 6/2008

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**ADDITIONAL COMMENTS**

The County has identified sites where temporary equipment can be placed to allow for fueling of first responder vehicles and other disaster response support vehicles during and after an event. The County has identified a need to make these sites permanent to better address the needs of operating post disaster when that disaster does not allow for the preparation lead time of a hurricane (ie: tornado, winter/ice storm, man made or terrorism, nuclear power plant emergency).

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 6**

Place the utility power lines, cable and telephone lines to County/Town Facilities and Emergency Shelters underground.

**BACKGROUND INFORMATION**

**Site and Location:** County Facilities, Isle of Wight County

**History of Damages:**

**MITIGATION ACTION DETAILS**

**Hazard(s) Addressed:** Hurricane, Tropical Storm, Winter Storm, Tornado, Wildfire

**Goal(s) Addressed:** Structural Projects

**Priority (High, Moderate, Low):** Low

**Estimated Cost:** \$3,000,000

**Potential Funding Sources:** PDM

**Lead Agency/Department Responsible:** Emergency Management/Public Works

**Implementation Schedule:**

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Legal:**1 ☐2 ☒3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**ADDITIONAL COMMENTS**

The County and Towns would work with the local power suppliers (Community Electric Coop and Dominion) to have the utility lines leading to County and Town essential facilities buried underground to support limiting damage to this infrastructure and to facilitate the power company's abilities to more quickly restore power to the government buildings.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 7**

Purchase and install wind-proof windows and shutters for all vital County Facilities and Emergency Shelters.

**BACKGROUND INFORMATION**

**Site and Location:** Emergency Shelters county-wide, Isle of Wight County

**History of Damages:**

**MITIGATION ACTION DETAILS**

**Hazard(s) Addressed:** Hurricane Tropical Storm, Tornado

**Goal(s) Addressed:** Structural Project

**Priority (High, Moderate, Low):** Moderate

**Estimated Cost:** \$1,500,000

**Potential Funding Sources:** PDM

**Lead Agency/Department Responsible:** Public Works

**Implementation Schedule:** 1/2007 – 12/2008

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Technically Feasible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 8****Purchase an all-weather Mobile Emergency Operations Center/Command Center/Emergency Communications Center.****BACKGROUND INFORMATION****Site and Location:** County-wide, Isle of Wight County**History of Damages:****MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Hurricane, Tropical Storms, Flood**Goal(s) Addressed:** Emergency Response**Priority (High, Moderate, Low):** High**Estimated Cost:** \$250,000**Potential Funding Sources:** PDM**Lead Agency/Department Responsible:** Emergency Management/Emergency Communications Center**Implementation Schedule:** 1/2007 – 8/2007**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

This vehicle would be a self-propelled, multi-purpose command/communications vehicle. This vehicle would serve as a mobile command post, field EOC and backup main and/or onscene emergency communications center. The project includes the vehicle, specially built for this purpose, as well as the radio and other equipment needed to perform the functions. This vehicle would be available for deployment throughout the Hampton Roads area with its primary mutual aid assistance area being Western Tidewater. This vehicle will need to be self sustaining, not reliant upon shore power or land line phone services.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 9**

Contract with the Army Corps of Engineers to prepare a study that analyzes the effects of erosion along the 36.5 miles of James River shoreline. The study will examine both continuous and disaster event erosion. Also, the study will provide a plan to mitigate all forms of erosion along the James River.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	James River, Isle of Wight County
<b>History of Damages:</b>	1999 Hurricane Floyd, 2003 Hurricane Isabel

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flooding, tropical storm, hurricane,
<b>Goal(s) Addressed:</b>	Plans and Studies
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$50,000
<b>Potential Funding Sources:</b>	PDM
<b>Lead Agency/Department Responsible:</b>	Planning and Zoning/Parks and Recreation
<b>Implementation Schedule:</b>	1/2007 to 12/2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 10**

Purchase two vehicles equipped with 2-way radios and auxiliary fuel tanks to provide assistance and fuel to stranded/evacuating citizens throughout the County, especially along the 56 miles of Virginia Department of Transportation designated Emergency Evacuation Routes.

**BACKGROUND INFORMATION**

**Site and Location:** County-wide, Isle of Wight County

**History of Damages:**

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All
<b>Goal(s) Addressed:</b>	Emergency Response
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$100,000
<b>Potential Funding Sources:</b>	PDM
<b>Lead Agency/Department Responsible:</b>	Emergency Management
<b>Implementation Schedule:</b>	1/2007- 4/2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**ADDITIONAL COMMENTS**

To address the population utilizing the emergency evacuation routes, and to ensure the vehicles continue moving, the purchase vehicles equipped to assist stranded motorists is included in this project (pickup trucks with gasoline tanks and pumps, emergency warning lights, push bumpers and room for other equipment).

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 11**

Hire firm to develop questionnaire asking if individuals would need assistance during/post disaster and what help they would need. Distribute to all citizens along with disaster preparation information. Develop database to compile results and develop reports.

**BACKGROUND INFORMATION**

**Site and Location:** County-wide, Isle of Wight County

**History of Damages:**

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All
<b>Goal(s) Addressed:</b>	Emergency Response/ Public education and awareness
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	\$50,000
<b>Potential Funding Sources:</b>	PDM
<b>Lead Agency/Department Responsible:</b>	Emergency Management
<b>Implementation Schedule:</b>	10/2006- 7/2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Technically Feasible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☒4 ☐5 ☐**Economically Sound:**1 ☐2 ☐3 ☒4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

To address the population utilizing the emergency evacuation routes, and to ensure the vehicles continue moving, the purchase vehicles equipped to assist stranded motorists is included in this project (pickup trucks with gasoline tanks and pumps, emergency warning lights, push bumpers and room for other equipment).



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**ISLE OF WIGHT COUNTY MITIGATION ACTION 12**

Purchase and install generators and auto transfer switches for County buildings and upgrade generators at shelter facilities.

**BACKGROUND INFORMATION**

**Site and Location:** County Governmental Complex and Emergency Shelters

**History of Damages:**

**MITIGATION ACTION DETAILS**

**Hazard(s) Addressed:** Loss of power/All

**Goal(s) Addressed:** Structural Project

**Priority (High, Moderate, Low):** High

**Estimated Cost:** \$1,000,000

**Potential Funding Sources:** PDM

**Lead Agency/Department Responsible:** Emergency Management

**Implementation Schedule:** 10/2006- 7/2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

During times of power outages the government is unable to function due to power loss. During Hurricane Isabel this became a problem as we were unable to restore basic services to the citizens until power was restored. Back up generator power at the County's shelters is limited to select lighting and does not allow for HVAC and medical equipment to be utilized. This is especially important with the number of individuals who need to have oxygen, breathing treatments and cold storage of medications.

# Norfolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 1**

Norfolk will expand and provide information and education to residents and businesses about the types of hazards they are exposed to, where they occur, and what they can do to be better prepared.

**BACKGROUND INFORMATION**

Site and Location:	N/A
History of Damages:	N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed:	All Hazards
Category:	Public Education and Awareness
Priority (High, Moderate, Low):	High
Estimated Cost:	\$25,000
Potential Funding Sources:	DHS Grant, HMMGP, Operating Budget
Lead Agency/Department Responsible:	Emergency Preparedness & Response
Implementation Schedule:	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

<b>Socially Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Technically Feasible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
<b>Administratively Possible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Politically Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Legal:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Economically Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
<b>Environmentally Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>

**COMMENTS**

Norfolk is beginning a CERT Program and is working with city department and support agencies to disseminate information and educational material to the citizens and businesses. The goal of this mitigation action to improve the information flow and review the ability to communicate with residents and businesses the best education and awareness practices.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 2**

**Increase Public Awareness of Vulnerability to Hazards: Provide information to residents and businesses about the types of hazards they are exposed to, where they occur, and what they can do to be better prepared.**

**BACKGROUND INFORMATION**

Site and Location: N/A

History of Damages: N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: All Hazards

Category: Public Education and Awareness

Priority (High, Moderate, Low): High

Estimated Cost: \$20,000

Potential Funding Sources: DHS Grant, Operating Budget

Lead Agency/Department Responsible: Emergency Preparedness &amp; Response

Implementation Schedule: TBD

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☒**Technically Feasible:**1 ☐ 2 ☐ 3 ☐ 4 ☒ 5 ☐**Administratively Possible:**1 ☐ 2 ☐ 3 ☒ 4 ☐ 5 ☐**Politically Acceptable:**1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☒**Legal:**1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☒**Economically Sound:**1 ☐ 2 ☐ 3 ☐ 4 ☒ 5 ☐**Environmentally Sound:**1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☒**COMMENTS**

It is recommended that Norfolk form a committee that is responsible for providing the public information regarding disasters and preparedness and mitigation for various disasters.

Public education can have numerous intangible benefits from the public safety peace of mind. It can result in preventing or lessening damage caused by disasters and can save lives. This recommendation covers a wide range of topics including:

- Understanding the public warning system and what to do when a warning is (continued...)

## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

---

Jurisdiction: Southside Hampton Roads Region

---

disseminated

- Flood proofing structures appropriately
- Wind proofing structures appropriately
- Property Protection seminars
- Hazard Awareness Fairs
- Development of a medical support registry
- Education on defined Flood and Surge Zones and information on their meaning

This list covers some, but not all, possible topics for public education. Public education is extremely and should be carefully incorporated into an awareness program.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 3**

Expand the notification system to possibly a city-wide siren/Public Address System: A siren system is one of the quickest and most effective methods for alerting the public of an impending disaster, especially one that is occurring after normal business hours or at night or one that has occurred quickly such as a HAZMAT or is approaching quickly such as a tornado.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	An estimated 20+ sites throughout the City of Norfolk. Identify points throughout the city that would be heard by the majority of residents and businesses.
<b>History of Damages:</b>	N/A

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All Hazards
<b>Category:</b>	Public Communication/Notification
<b>Priority (High, Moderate, Low):</b>	HIGH
<b>Estimated Cost:</b>	TBD but could be in excess of \$500,000
<b>Potential Funding Sources:</b>	DHS Grant, Private Funds
<b>Lead Agency/Department Responsible:</b>	Emergency Preparedness & Response & IT
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**COMMENTS****The Alert and Notification Siren System**

In an emergency, city officials would activate the siren alerting system.

- The sirens are installed to promptly alert the public to any potential danger.
- The sirens are not a signal to evacuate.

## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

---

Jurisdiction: Southside Hampton Roads Region

---

- The sirens would sound a steady three- to five-minute signal, which varies in (continued...) loudness as the siren rotates.
- When citizens hear the sirens, they should turn on their radio or television to a local Emergency Alert System (EAS) station and listen for instructions.
- In many cases, an incident could take several hours to develop into a major emergency. During those hours citizens could receive instructions via the media and would have time to take precautions.

Remember, the sirens would be used to alert the public for various hazards and the alert is for them to turn to the local radio or television for information.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 4**

Contract for the development of a regional Emergency Transportation Coordination Plan. Mitigation action will be for an outside contractor or local universities to study and develop a plan that details Evacuation Transportation Coordination using all-modes of transportation; vehicles, rail, air, and water. The plan will address primarily Norfolk and regional incidents or emergencies that would require information exchange and decision-making resources to coordinate evacuation, sheltering and strategies.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Norfolk and regional overview. The parameters and strategies in the plan would describe and be useful in a wide variety of incidents where there might be surge demands on the transportation system, needs to be coordinated among city and transportation agencies, or a desire by the public to be advised on their best course of action regarding transportation.
<b>History of Damages:</b>	N/A

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Transportation lack of or grid-lock
<b>Category:</b>	Public Education and Awareness
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	TBD
<b>Potential Funding Sources:</b>	DHS Grant, HRPDC, Private
<b>Lead Agency/Department Responsible:</b>	Public Works, Communications, Emergency Preparedness & Response
<b>Implementation Schedule:</b>	TBD

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------



## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

### **COMMENTS**

The keys components of the plan would include:

- The plan would develop a series of Norfolk and regional maps building on Norfolk knowledge in areas such as lane drops on major roadways that could become points of congestion in the City of Norfolk.
- Development of an inventory of transit availability, including private providers and school buses.
- Identification of regional transit, traffic and demand strategies to apply in extraordinary situations.
- Identification of potential vulnerabilities and additional areas for future evaluation and planning.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 5**

Purchase mobile platforms for use in loading rail passenger cars. The availability of mobile platforms that could be moved into designated areas along rail lines to be used for loading passengers into rail cars for rail movement out of potential dangerous areas.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Staging area possibly Harbor Park. These mobile platforms would be used in lack of passenger terminal availability.
<b>History of Damages:</b>	N/A

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All-Hazard
<b>Category:</b>	Mass Transportation Evacuation
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$50,000
<b>Potential Funding Sources:</b>	DHS, Private
<b>Lead Agency/Department Responsible:</b>	Public Works, Emergency Preparedness
<b>Implementation Schedule:</b>	By June 1, 2006

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**COMMENTS**

Mobile platforms would allow access to rail passenger cars from several areas in the City of Norfolk. This would allow another avenue to move large numbers of residents via rail.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 6**

**Storm Water Flooding Projects.** Norfolk's Department of Public Works has a list of over 100 projects throughout the City of Norfolk that will assist in storm water run-off and flooding problems.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	City-wide. These various projects will mitigate flooding and run-off problems throughout the City of Norfolk
<b>History of Damages:</b>	Yearly damage occurs to homes and business. Flood damage occurs on a yearly basis throughout the city because of poor drainage.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flood
<b>Category:</b>	Property Protection
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	TBA
<b>Potential Funding Sources:</b>	DHS, Private
<b>Lead Agency/Department Responsible:</b>	Public Works
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**COMMENTS**

Hazard Mitigation Grants should be considered as a potential funding source and used as a basis for property protection.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 7**

Purchase generators and develop hook-ups for mobile units for Underpass Pump Stations. The City of Norfolk has 9 underpasses and only one is equipped with a generator. This mitigation action would provide back-up power for all underpasses and help to keep the underpasses open longer.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	All nine (9) underpasses throughout the city. Projects to be identified by Public Works with a highest priority list.
<b>History of Damages:</b>	Damage occurs yearly with damaged equipment and vehicles stuck in underpasses.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Urban Flooding
<b>Category:</b>	Prevention
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	TBA
<b>Potential Funding Sources:</b>	HMGP, Stormwater, Fees
<b>Lead Agency/Department Responsible:</b>	Public Works
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

<b>Socially Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Technically Feasible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Administratively Possible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Politically Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Legal:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Economically Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Environmentally Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>

**COMMENTS**

Norfolk's Storm water Program may be able to obtain funding from HMGP grants for some of these site actions.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 8**

**Back-up generators for Traffic Signals.** Norfolk has a large Traffic Signals system that needs back-up power sources. This mitigation action would provide ongoing power for the cities traffic signals.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	City-wide. Norfolk has approximately 284 traffic signals.
<b>History of Damages:</b>	During Hurricane Isabel Norfolk lost +90% of traffic signal operations for various time periods.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Transportation
<b>Category:</b>	Property Protection
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	TBD
<b>Potential Funding Sources:</b>	HMGP
<b>Lead Agency/Department Responsible:</b>	Public Works
<b>Implementation Schedule:</b>	TBD

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

<b>Socially Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Technically Feasible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Administratively Possible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Politically Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Legal:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Economically Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Environmentally Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>

**COMMENTS**

There are possible opportunities to consider the Hazard Mitigation Grant Program (HMGP) as a basis for transportation issues such as property protection.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 9**

Implement an additional city fuel site or the addition of tanks at current city site(s). Norfolk has two city owned sites with an overall storage capacity of 25K gallons, minimum capacity should be approximately 75K.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	New site TBD, NPS, Streets & Bridges
<b>History of Damages:</b>	During Hurricane Isabel Norfolk lost 95% of vendor fuel availability, during Katrina supply remained in question. There are many factors that may dictate fuel availability during an emergency, as we have seen during Isabel and Katrina.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All Hazards
<b>Category:</b>	Emergency Response & Recovery
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	\$250,000
<b>Potential Funding Sources:</b>	TBD, Operating Budget
<b>Lead Agency/Department Responsible:</b>	Emergency Preparedness & Response, Fleet
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

<b>Socially Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Technically Feasible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Administratively Possible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Politically Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Legal:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Economically Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Environmentally Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>

**COMMENTS**

The goal of this mitigation action is to increase the cities fuel capacity in support of the city Response and Recovery effort. It is recommended that the city form a representative user group to make a recommendation 1) to retrofit existing site(s) or 2) identify potential new site(s) 3) minimum capacity requirements.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 10**

Extend our fence line and add additional parking. Fleet is one of the higher elevations within the city limits; with additional parking, the staging of vehicle and equipment assets would be possible.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Fleet Management
<b>History of Damages:</b>	In the event of wide spread flooding, the staging of vehicles at higher elevations would be a basic necessity.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Weather & Flooding
<b>Category:</b>	Preparedness & Recovery
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	\$100,000
<b>Potential Funding Sources:</b>	TBD, Operating Budget
<b>Lead Agency/Department Responsible:</b>	Emergency Preparedness & Response
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**COMMENTS**

The goal of this mitigation action is to provide parking for the staging for vehicles and equipment in support of the cities Response and Recovery effort prior to and during a weather emergency.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 11****Create Upgraded Flood Plain Manager staff position****BACKGROUND INFORMATION****Site and Location:** Citywide**History of Damages:** NA**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Flooding; Hurricanes and Tropical Storms**Category:** Public Education and Awareness; Protection**Priority (High, Moderate, Low):** High**Estimated Cost:** NA**Potential Funding Sources:** NA**Lead Agency/Department Responsible:** Planning & Community Dev.; Public Works**Implementation Schedule:****ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☐3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☐**COMMENTS**

Under the Community Rating System (CRS) of the National Flood Insurance Program (NFIP), points are awarded for specific activities undertaken by a community to increase public awareness and education regarding the benefits of participation in the flood insurance program. Points are also awarded for preparedness and damage prevention and mitigation activities undertaken by the community. Points accumulated annually above a certain threshold qualify flood insurance policy holders for an annual premium discount beginning at the 5% level. Norfolk currently qualifies for the threshold discount of 5% based on the range of relevant, qualifying activities currently undertaken and documented. The Community Flood Plain Manager designation is currently held as a collateral responsibility by an individual in the Planning and Community Development Department and various flood management activities that qualify for points are undertaken by Planning, Public Works-Stormwater, and other City agencies. Upgrading the role of Community Flood Plain Manager and the resources available to the position would allow additional beneficial activities qualifying for additional CRS points (continued...)



## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

---

Jurisdiction: Southside Hampton Roads Region

---

to be undertaken and documented. An increase in the 'earned' NFIP insurance premium discount would have the benefit of encouraging greater citizen and business participation in the national flood insurance program, thereby creating a 'win-win' situation of increased community benefit both in pre-flooding and hurricane experience and in post event recovery.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 12****Norfolk Hurricane Home Readiness Program****BACKGROUND INFORMATION****Site and Location:** Citywide**History of Damages:** NA**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Flooding; Hurricanes and Tropical Storms**Category:** Protection; Public Education and Awareness**Priority (High, Moderate, Low):** High**Estimated Cost:** NA**Potential Funding Sources:****Lead Agency/Department Responsible:** Building Construction Services**Implementation Schedule:****ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☐3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☐**COMMENTS**

Creation of a *voluntary* program exceeding the requirements of the Statewide Building Code is proposed to create a list of appropriate higher level construction standards that, when incorporated in the construction of a dwelling, enable the structure to more adequately resist the forces of hurricanes, flooding and high winds. A list of 'upgraded' construction options each with a certain weighted value would be created that a builder could select from. A threshold value would be identified which if achieved would allow the house to be identified as a "Norfolk Hurricane Home." The program would seek to generate public demand and participation through various publicity activities including newspaper articles, signs in front of eligible homes, marshalling insurance industry support, FEMA endorsement and the like. The Building Construction Services Division of Planning and Community Development would verify the point accumulation from the options selected by the builder both on submitted plans and during inspections of the actual construction. Over time units reaching 'Norfolk Hurricane Home' certification (continued...)

## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

---

Jurisdiction: Southside Hampton Roads Region

---

might qualify for lower insurance rates and help offset the added construction cost. Standards could be modified over time based on experience.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 13**

**Comprehensive Planning Process.** The pending update to the Norfolk Comprehensive Plan should integrate mitigation plans and strategies to the maximum extent feasible.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Citywide
<b>History of Damages:</b>	Historical community loss data

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All hazards
<b>Category:</b>	Prevention
<b>Priority (High, Moderate, Low):</b>	
<b>Estimated Cost:</b>	N/A
<b>Potential Funding Sources:</b>	N/A
<b>Lead Agency/Department Responsible:</b>	Planning and Community Development
<b>Implementation Schedule:</b>	

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------

**COMMENTS**

The ongoing citywide community planning process should integrate fully the mitigation planning effort.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**NORFOLK MITIGATION ACTION 14****Beach Management and Protection. Maintenance and protection of the approximately 7.5 miles of beaches.****BACKGROUND INFORMATION****Site and Location:** Chesapeake Bayfront**History of Damages:** Historic loss data**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Flooding**Category:** Natural Resource and Structural Protection**Priority (High, Moderate, Low):****Estimated Cost:** \$20,000,000**Potential Funding Sources:** ACOE, CIP**Lead Agency/Department Responsible:** Planning and Community Improvement**Implementation Schedule:** Ongoing**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☐3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☐**COMMENTS**

Planned completion of a General Reevaluation Report (GRR) with the US Army Corp of Engineers will provide overall direction and plan for enhancing and maintaining the Norfolk beaches. Multiple activities are covered under this effort including breakwater and other physical construction, beach surveys and source identification, environmental permitting, and dune planting and stabilization.

# Portsmouth

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**PORTSMOUTH MITIGATION ACTION 1**

Extend Seawall including storm water pumps.

**BACKGROUND INFORMATION****Site and Location:** Crawford Parkway from North St. to Swimming Pt. Walk**History of Damages:** General Flooding during storms, poor drainage**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Hurricane/Coastal Erosion**Category/Goal(s) Addressed:** Structural projects**Priority (High, Moderate, Low):** Moderate**Estimated Cost:** Undetermined**Potential Funding Sources:** Grants**Lead Agency/Department Responsible:** Planning**Implementation Schedule:** 2010**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Legal:**1 ☐2 ☒3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**ADDITIONAL COMMENTS**

Flooding on Crawford Parkway has been a continuing problem for some time. The construction of this seawall will minimize the damage caused by storm surge.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**PORTSMOUTH MITIGATION ACTION 2**

Permanent generators for primary shelters and other critical city facilities.

**BACKGROUND INFORMATION****Site and Location:** Primary Shelters and Critical Facilities**History of Damages:** During Isabel, power was lost for extended periods of time.**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Multiple**Category/Goal(s) Addressed:** Structural Project**Priority (High, Moderate, Low):** High**Estimated Cost:** Undetermined**Potential Funding Sources:** Grants**Lead Agency/Department Responsible:** Shelter site-Schools, Critical Facilities-Property Management**Implementation Schedule:** 2007**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy ▪ 3 = Moderately Satisfies ▪ 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

During shelter operations, we currently have no permanent power supply. The addition of generators at these key facilities will enhance our capability to provide emergency sheltering to our citizens. Critical Facilities are essential when recovering from a disaster.



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**PORTSMOUTH MITIGATION ACTION 3**

Put utilities underground.

**BACKGROUND INFORMATION**

Site and Location: Citywide

History of Damages: Power outages and downed power lines

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: Multiple

Category/Goal(s) Addressed: Structural Projects/Policies

Priority (High, Moderate, Low): Moderate

Estimated Cost: Undetermined

Potential Funding Sources: To be Determined

Lead Agency/Department Responsible: Planning

Implementation Schedule: 2010

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Legal:**1 ☐2 ☒3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**ADDITIONAL COMMENTS**

All new subdivision shall be required to provide underground utilities. Target areas identified will be prioritized based on future funding.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**PORTSMOUTH MITIGATION ACTION 4**

Improve public outreach and education by increased presentations and improved public awareness program.

**BACKGROUND INFORMATION**

Site and Location: Throughout City

History of Damages: General

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: Multiple

Category/Goal(s) Addressed: Public educations and Awareness

Priority (High, Moderate, Low): High

Estimated Cost: \$50,000

Potential Funding Sources: Grants

Lead Agency/Department Responsible: Emergency Management

Implementation Schedule: 2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Technically Feasible:**1 ☐2 ☐3 ☐4 ☐5 ☒**Administratively Possible:**1 ☐2 ☐3 ☐4 ☐5 ☒**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

This has been identified as a potential shortcoming for our city. This area has been given a high priority and corrective actions are in progress.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**PORTSMOUTH MITIGATION ACTION 5****Pre-identification of Special needs Populations.****BACKGROUND INFORMATION****Site and Location:** Throughout City**History of Damages:** Problems encountered during Isabel with identification**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Multiple**Category/Goal(s) Addressed:** Plans and Studies**Priority (High, Moderate, Low):** Moderate**Estimated Cost:** N/A**Potential Funding Sources:** Unknown**Lead Agency/Department Responsible:** Emergency Management/Fire**Implementation Schedule:** August 2006**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Technically Feasible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☒4 ☐5 ☐**Economically Sound:**1 ☐2 ☐3 ☒4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

Emergency Management will perform an assessment city wide to pre-identify at risk areas. This data base will be maintained and updated annually by this division.

# Smithfield

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**SMITHFIELD MITIGATION ACTION 1**

Install two fuel tanks – one for diesel fuel and one for regular gasoline. This will ensure that the Town of Smithfield will have an adequate fuel supply for Town vehicles, especially emergency vehicles and backup generators. Contact Wayne Griffin for tank capacities preferred.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	293 Cary Street Smithfield Virginia  Located on the outer boundary line of the Town of Smithfield.
<b>History of Damages:</b>	N/A

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Hurricanes, Tropical Storms, Winter Storms
<b>Category/Goal(s) Addressed:</b>	Emergency Response
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$60,000
<b>Potential Funding Sources:</b>	Hazard Mitigation Grant Program (HMGP)
<b>Lead Agency/Department Responsible:</b>	Public Works/Utilities
<b>Implementation Schedule:</b>	1/2007-12/2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy ▪ 3 = Moderately Satisfies ▪ 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**ADDITIONAL COMMENTS**

--------------

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**SMITHFIELD MITIGATION ACTION 2**

Purchase and install an emergency generator sized large enough for existing utility storage building, office building and a utility storage/office building that is under construction.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	293 Cary Street Smithfield Virginia  Located on the outer boundary line of the Town of Smithfield.
<b>History of Damages:</b>	N/A

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Hurricanes, Tropical Storms, Winter Storms
<b>Category/Goal(s) Addressed:</b>	Structural Project
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$55,000
<b>Potential Funding Sources:</b>	Hazard Mitigation Grant Program (HMGP)
<b>Lead Agency/Department Responsible:</b>	Public Utilities
<b>Implementation Schedule:</b>	1/2007-12/2007

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

--------------

# Suffolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**SUFFOLK MITIGATION ACTION 1**

Establish realistic base flood elevations.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Various locations along the James River, Nansemond River, Chuckatuck Creek, Shingle Creek, Blackwater River, Somerton Creek, Dismal Swamp, and their tributaries
<b>History of Damages:</b>	The storm of record was Hurricane Floyd in 1999 in which 20 homes were destroyed by flood waters outside the 100 Year Flood Plain. Another 78 homes and 25 businesses were damaged by flood waters.  In addition, nor'easters cause flooding along the tidal rivers and creeks

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flooding
<b>Category/Goal(s) Addressed:</b>	Plans and studies
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	Unk
<b>Potential Funding Sources:</b>	Unk
<b>Lead Agency/Department Responsible:</b>	Emergency Management
<b>Implementation Schedule:</b>	ASAP

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

In order to prevent future repetitive losses the establishment of a base flood elevation is necessary before any elevation projects can be identified and successfully completed.



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**SUFFOLK MITIGATION ACTION 2**

Develop a dam failure mitigation plan.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Areas down stream from the following dams: Western Branch, Burnt Mills, Lake Prince, Lake Cahoon, Lake Meade, Lake Kilby, Speight's Run and Camp Pond.
<b>History of Damages:</b>	During Hurricane Floyd in 1999 Speight's Run spillway was compromised rendering Turlington Road impassable. Other dams overtopped by what was reported as 8 feet. There was no problem with Camp Pond.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flooding
<b>Category/Goal(s) Addressed:</b>	Plans and Studies
<b>Priority (High, Moderate, Low):</b>	Low
<b>Estimated Cost:</b>	Unknown
<b>Potential Funding Sources:</b>	Unknown
<b>Lead Agency/Department Responsible:</b>	Emergency Management
<b>Implementation Schedule:</b>	Not determined

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy ▪ 3 = Moderately Satisfies ▪ 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**SUFFOLK MITIGATION ACTION 3**

Mitigation of Urban Flooding.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Across the rural areas of the city
<b>History of Damages:</b>	In rural areas of the city, roads flood each time there is a significant rainfall.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Urban flooding
<b>Category/Goal(s) Addressed:</b>	Plans and Studies
<b>Priority (High, Moderate, Low):</b>	Low
<b>Estimated Cost:</b>	Unknown
<b>Potential Funding Sources:</b>	Unknown
<b>Lead Agency/Department Responsible:</b>	Public Works
<b>Implementation Schedule:</b>	ASAP

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy ▪ 3 = Moderately Satisfies ▪ 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

--------------

# Virginia Beach

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 1**

The Comprehensive Planning Process could be expanded to better integrate the existing mitigation related programs, as well as the mitigation philosophy to include links to the mitigation plan itself.

**BACKGROUND INFORMATION****Site and Location:** N/A Planning Process**History of Damages:** General Community Loss Information**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** All Natural Hazards, potentially man-made**Category/Goal(s) Addressed:** Prevention**Priority (High, Moderate, Low):****Estimated Cost:** N/A**Potential Funding Sources:** N/A**Lead Agency/Department Responsible:** Planning Department**Implementation Schedule:****ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

This strategy is a process improvement alternative to build upon the existing comprehensive planning process. A stronger integration of mitigation practices can be included to complement the mitigation planning process.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 2**

The Open Space Program could be reviewed in light of mitigation considerations and rationalized as part of a mitigation plan.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	N/A Planning Process
<b>History of Damages:</b>	General Community Loss

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All Hazards
<b>Category/Goal(s) Addressed:</b>	Prevention
<b>Priority (High, Moderate, Low):</b>	
<b>Estimated Cost:</b>	TBA
<b>Potential Funding Sources:</b>	HMGP
<b>Lead Agency/Department Responsible:</b>	Planning
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

The city's Open Space Program is centered upon land preservation and quality of life. A new emphasis would include hazard mitigation as a basis for open space identification and acquisition. This may open up the HMGP as a funding alternative.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 3**

The Stormwater Management Program could be reviewed as part of the city's overall Hazard Mitigation Plan. Projects and programs should be reviewed to identify possible HMGP grant opportunities that might support stormwater management programs.

**BACKGROUND INFORMATION**

**Site and Location:** Various sites. Projects are identified and included in the CIP and funded by stormwater fees.

**History of Damages:**

**MITIGATION ACTION DETAILS**

**Hazard(s) Addressed:** Urban Flooding

**Category/Goal(s) Addressed:** Prevention

**Priority (High, Moderate, Low):**

**Estimated Cost:** TBA

**Potential Funding Sources:** HMGP, Stormwater Fees

**Lead Agency/Department Responsible:** Public Works

**Implementation Schedule:** TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

The city has a Stormwater Management Program that is funded by a limited stormwater fee. This initiative could be integrated into a larger community mitigation strategy as future HMGP funding opportunities become available.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 4**

Relocation of the ComIT Data Center.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	ComIT Data Center Building 2 2405 Courthouse Drive
<b>History of Damages:</b>	There have been marginal flooding problems in Building 2 that included: 1) Flooding from a leak in the fire sprinkler system on the first floor. 2) Flooding from leaks in the roof's drainage system. 3) The appearance of water backup on the Data Center sub-floor, due to the water drainage system, which has occurred on multiple occasions. 4) In 2004, there were two occasions of flooding due to equipment failure in Building 1 where damage and loss of service was avoided only because on-site staff discovered the flood before water reached the Data Center. 5) During Hurricane Isabel it was necessary to shutdown all of the computer systems in the Data Center and physically move equipment to the second floor of Building 2 to avoid potential flooding. Moving equipment carries associated risks and at least two servers were corrupted during this process.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Multiple
<b>Category/Goal(s) Addressed:</b>	Structural Project/Prevention
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	Unknown
<b>Potential Funding Sources:</b>	CIP, HMGP
<b>Lead Agency/Department Responsible:</b>	CimIT
<b>Implementation Schedule:</b>	

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

<b>Socially Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Technically Feasible:</b>				
1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Administratively Possible:</b>				
1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Politically Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Legal:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Economically Sound:</b>				
1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Environmentally Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>

**ADDITIONAL COMMENTS**

--

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 5**

The city should review its Floodplain Management Program to ensure that stakeholders, as well as program activities, are current and appropriate for the city.

**BACKGROUND INFORMATION****Site and Location:** N/A, Process**History of Damages:** General Community Losses**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Flooding**Category/Goal(s) Addressed:** Prevention**Priority (High, Moderate, Low):****Estimated Cost:** TBA**Potential Funding Sources:** N/A**Lead Agency/Department Responsible:** Public Works**Implementation Schedule:** TBA**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☒5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

This initiative suggests a review of the city's Floodplain Management Program to ensure that the appropriate stakeholders and the full range of programs are considered in order to advance floodplain goals within the community.



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 6**

The city should evaluate its Site Plan Review Process to consider the vulnerabilities of natural, as well as man-made disasters. This analysis should be made part of the review process and include mitigation and preparedness issues, where appropriate.

**BACKGROUND INFORMATION**

Site and Location: N/A, Process

History of Damages: N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: All Hazards

Category/Goal(s) Addressed: Prevention

Priority (High, Moderate, Low):

Estimated Cost: N/A

Potential Funding Sources: N/A

Lead Agency/Department Responsible: Planning

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☒5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

This initiative is proposed to consider the integration of mitigation and a hazard analysis into the Site Plan Review Process. While there may be limited policies, this review may provide opportunities to increase the awareness of vulnerabilities and mitigation alternatives.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 7**

The city could consider the Virginia Uniform Statewide Building Code's current status and determine if lobbying might be appropriate to increase the code's strength.

**BACKGROUND INFORMATION**

Site and Location: N/A

History of Damages: N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: Wind Hazard

Category/Goal(s) Addressed: Prevention

Priority (High, Moderate, Low):

Estimated Cost: N/A

Potential Funding Sources: N/A

Lead Agency/Department Responsible: Planning

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Legal:**1 ☐2 ☒3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

This strategy suggests that the Virginia Uniform Statewide Building Code be evaluated as a means to increase community protection. Since the city is under a statewide building code, opportunities to improve the code would have to be based upon a statewide strategy.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 8**

Encourage critical businesses and service agencies to consider mitigation planning and project development to include emergency quick connects and emergency generators.

**BACKGROUND INFORMATION**

Site and Location: N/A

History of Damages: N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: All Hazards

Category/Goal(s) Addressed: Prevention

Priority (High, Moderate, Low):

Estimated Cost: Minimal

Potential Funding Sources: Operating Budget, DHS grant

Lead Agency/Department Responsible: Fire

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☒5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

It is to the city's advantage that critical facilities are hardened from the impacts of disasters. The hardening of businesses supports their ability to recover from potential disasters.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 9**

The city should review its property maintenance and renovation programs to ensure mitigation programs and concepts are integrated into its operations. HMGP grants are ways to improve property protection and maintenance, such as elevating structures.

**BACKGROUND INFORMATION**

Site and Location: N/A

History of Damages: N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: Flood

Category/Goal(s) Addressed: Property Protection

Priority (High, Moderate, Low):

Estimated Cost: TBA

Potential Funding Sources: HMGP

Lead Agency/Department Responsible: Housing and Neighborhood Perseveration

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☒5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

There are opportunities to consider the Hazard Mitigation Grant Program (HMGP) as a basis for property protection, as well as maintenance/renovation. The various stakeholders should review the HMGP along with the program's alternatives and costs.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 10**

The city wishes to continue its program of providing emergency power quick connect capabilities to its sewer pump stations to support extended power outages.

**BACKGROUND INFORMATION**

**Site and Location:** Various locations. Identification of the most critical sewer pump stations will be done after a vulnerability review of remaining stations.

**History of Damages:**

**MITIGATION ACTION DETAILS**

**Hazard(s) Addressed:** Wind Vulnerability

**Category/Goal(s) Addressed:** Property Protection

**Priority (High, Moderate, Low):**

**Estimated Cost:** \$500,000

**Potential Funding Sources:** HMGP, CIP

**Lead Agency/Department Responsible:** Public Utilities

**Implementation Schedule:**

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Technically Feasible:**1 ☐2 ☐3 ☐4 ☐5 ☒**Administratively Possible:**1 ☐2 ☐3 ☐4 ☐5 ☒**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☒4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

The city has previously used HMGP funds, as well as CIP funding to provide quick connect capabilities for critical sewer pump stations.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 11**

The city might work with Dominion Virginia Power to explore strategies for putting utilities underground to decrease their vulnerability.

**BACKGROUND INFORMATION**

Site and Location: N/A

History of Damages: N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: Wind, Flooding, Ice

Category/Goal(s) Addressed: Property Protection

Priority (High, Moderate, Low):

Estimated Cost: TBA

Potential Funding Sources: CIP, Private Funds, Special Tax District

Lead Agency/Department Responsible: Public Works

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Legal:**1 ☐2 ☒3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**ADDITIONAL COMMENTS**

The issue of burying electrical power lines could be reviewed with Dominion Virginia Power for potential opportunities within the community.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 12**

The city should identify and consider a program to continue the hardening and retrofitting of critical facilities.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Various Sites: Police Precincts (Headquarters, Third and Second Precincts, Animal Control, LETA, Helicopter Shop), Fire Stations (Woodstock, Kempsville, Little Neck, Green Run, Stumpy Lake, Davis Corner Stations), Public Works, Public Utilities
<b>History of Damages:</b>	N/A

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Wind
<b>Category/Goal(s) Addressed:</b>	Property Protection
<b>Priority (High, Moderate, Low):</b>	
<b>Estimated Cost:</b>	\$4,000,000
<b>Potential Funding Sources:</b>	HMGP, CIP
<b>Lead Agency/Department Responsible:</b>	Public Works
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

The city has conducted several formal analyses of critical facilities and HMGP grants were obtained to harden several of the facilities. As HMGP funds become available, additional facilities should be identified and projects developed to strengthen and provide quick connect capabilities.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 13**

**Mitigation Capital Improvement Program:** The city may consider, as part of the CIP process, initiatives to identify funds for projects and to harden critical facilities, as well as other mitigation projects under the HMGP program.

**BACKGROUND INFORMATION**

**Site and Location:** The city would have various types of projects in this area to include facility hardening and quick connect installations.

**History of Damages:**

**MITIGATION ACTION DETAILS**

**Hazard(s) Addressed:** Wind

**Category/Goal(s) Addressed:** Property Protection

**Priority (High, Moderate, Low):**

**Estimated Cost:** \$500,000

**Potential Funding Sources:** CIP

**Lead Agency/Department Responsible:** Public Works

**Implementation Schedule:** TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☒3 ☐4 ☐5 ☐**Technically Feasible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Legal:**1 ☐2 ☒3 ☐4 ☐5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

To provide the city a pool of funds to support mitigation projects and potential grant applications.



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 14**

Subject to funding becoming available, the city will consider programming emergency power quick connect projects for the city's critical facilities. These facilities consist of critical city buildings, sewer and storm water pump stations where service disruption to these facilities would be minimized to ensure better services and community protection.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Building 18: Human Resources Building 19: Human Resources Training Rooms Building 21: Fire Administration Building 22: ComIT Public Information Various Storm Water Pump stations Various Sewer Pump stations Various Public Schools: Shelters and Neighborhood Medical Centers
<b>History of Damages:</b>	Several major events have resulted in extended power outages. Access to emergency power is critical in maintaining sewer services, continuity of government, vital services, and street intersections.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Wind
<b>Category/Goal(s) Addressed:</b>	Property protection
<b>Priority (High, Moderate, Low):</b>	
<b>Estimated Cost:</b>	\$2.0 million
<b>Potential Funding Sources:</b>	HMGP, CIP
<b>Lead Agency/Department Responsible:</b>	Public Works, Public Utilities, Facility Management
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

<b>Socially Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Technically Feasible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Administratively Possible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Politically Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Legal:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Economically Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Environmentally Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>

## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

### **ADDITIONAL COMMENTS**

The city has used HMGP funds, as well as operation budget funds, to advance quick connects and emergency power capabilities within the city's critical facilities. Quick connects for sewer pump stations, vital facilities, and critical street intersections are considered priority programs. This would be blended with existing emergency generator contracts.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 15**

The city should expand its public education programs and activities to ensure that disaster preparedness information is made available to the public.

**BACKGROUND INFORMATION**

Site and Location: N/A

History of Damages: N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: All Hazards

Category/Goal(s) Addressed: Public Education and Awareness

Priority (High, Moderate, Low):

Estimated Cost: \$20,000

Potential Funding Sources: DHS Grant, HMGP, Operating Budget

Lead Agency/Department Responsible: Fire

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

The city has multiple programs and strategies for the dissemination of emergency preparedness information. Additional avenues and strategies should be sought to ensure that the public is aware of emergency preparedness issues and how to access emergency information.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 16**

The city should continue with the CERT and Medical Reserve Corps (MRC) Programs for integration into the overall emergency preparedness of the community.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	N/A
<b>History of Damages:</b>	The CERT provided community during the Isabel emergency, which also provided validation of the program's application. The CERT, MRC, and other volunteer groups have provided additional services.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All Hazards
<b>Category/Goal(s) Addressed:</b>	Public Education and Awareness
<b>Priority (High, Moderate, Low):</b>	
<b>Estimated Cost:</b>	\$100,000
<b>Potential Funding Sources:</b>	DHS, Operating Budget
<b>Lead Agency/Department Responsible:</b>	Fire
<b>Implementation Schedule:</b>	TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

The city has a long history of volunteer integration in support of emergency services. The Citizen Corps, CERT, and MRC are the newest programs that support the community's general disaster emergency preparedness.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 17**

The city might consider a flood insurance education program to ensure that the public is aware of and receives information to make an informed decision about flood insurance.

**BACKGROUND INFORMATION**

Site and Location: N/A

History of Damages: The city has experienced several flood events.

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: Flooding

Category/Goal(s) Addressed: Public Education and Awareness

Priority (High, Moderate, Low):

Estimated Cost: \$10,000

Potential Funding Sources: HMGP, DHS, Operating Budget

Lead Agency/Department Responsible: Fire/OEM

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

The city's most likely hazards are flood based. Virginia Beach has 20,000 flood insurance policies in place. Based upon the city's large population, the need to educate others about flood insurance is seen as a high priority. Various programs and agencies support this activity and a coordinated effort to include the regional level would be appropriate.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 18**

The city might consider business education programs to encourage businesses to plan for disasters and disaster recovery. Planning support for internal, as well as external organizations should be considered.

**BACKGROUND INFORMATION**

Site and Location: Citywide

History of Damages:

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: All Hazards

Category/Goal(s) Addressed: Public Education and Awareness

Priority (High, Moderate, Low):

Estimated Cost: \$100,000

Potential Funding Sources: HMGP, DHS

Lead Agency/Department Responsible: Fire

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☒4 ☐5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☒5 ☐**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

The Continuity of Operations Plan (COOP) supports organizational preparedness for disasters. This program would support planning efforts both internal and external to the organization.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 19**

Purchase and install flashing beacon alert signs (14) to notify motorists when new or updated emergency messages are available via the city's low power AM Radio system. The city's VBAM 1680 was installed in the late summer of 2005 provides warnings and notifications.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	There are four transmitter sites throughout the city at the following locations: Deere Ct., Seatack Park, Kemps Landing Magnet School, and Juvenile Detention Center. The public notification system reaches approximately 80% effective coverage under normal operating conditions and the coverage may be increased during declared emergencies.
<b>History of Damages:</b>	This proposed action is not intended to replace the AM Radio System, but to increase the city's ability to get important messages to motorists. Due to the intricate local highway system, multiple signs in each coverage zone are recommended to increase public information.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Severe Weather, Accidents and Manmade Disasters, Impacts to municipal services, etc.
<b>Category/Goal(s) Addressed:</b>	Public Education and Awareness
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$196,600
<b>Potential Funding Sources:</b>	Unknown
<b>Lead Agency/Department Responsible:</b>	ComIT/Video Services or Public Works
<b>Implementation Schedule:</b>	

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

<b>Socially Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Technically Feasible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
<b>Administratively Possible:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Politically Acceptable:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Legal:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
<b>Economically Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
<b>Environmentally Sound:</b>				
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>

## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

### **ADDITIONAL COMMENTS**

Multiple signs are suggested due to the various highway entry points into the four coverage zone areas. 14 total flashing beacons are proposed with seven powered and seven solar units to facilitate effective placement throughout the city. This would be coordinated with the Department of Public Works to select the most traveled roadways and corridors to maximize public outreach.

Cost estimate based on the following:

14 flashing beacon systems & installation: \$149,000

14 Pole/signs: \$37,100

7 Electrical Installations: \$10,500

Total \$196,600 (Approx. \$14,000 per location)

Beacons would get the notification signal from our radio/paging system (900 Mhz). Currently unsure if costs are required for utilization/implementation of the city's radio system.



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 20**

Continue to build upon the communication systems to advance interoperability within the city and the region.

**BACKGROUND INFORMATION**

Site and Location: N/A

History of Damages: N/A

**MITIGATION ACTION DETAILS**

Hazard(s) Addressed: All Hazards

Category/Goal(s) Addressed: Emergency Services

Priority (High, Moderate, Low):

Estimated Cost: \$10,000,000

Potential Funding Sources: DHS, CIP

Lead Agency/Department Responsible: ComIT

Implementation Schedule: TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Technically Feasible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Administratively Possible:**1 ☐2 ☒3 ☐4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☐5 ☒**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☒3 ☐4 ☐5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

The city continues to work towards the modernization of its communication systems to include interoperability of city systems, as well as regional systems.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 21**

**Public Information Operation Emergency Power: Install a generator for Building 22 to power equipment for the 24/7 non-emergency contact center.**

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Municipal Center, Building 22
<b>History of Damages:</b>	Power outages are frequent at the municipal center. When Building 22 loses power there is a service disruption as PIO moves operations to Building 21. The space within Building 21 is only available during non-traditional work hours. Additionally, there is another delay once power is restored as PIO moves back to Building 22. As PIO takes on more non-emergency tasks from 911 (towing, media inquiries, public utilities, etc.), quick response times become even more critical.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Loss of Customer Service and Emergency Information
<b>Category/Goal(s) Addressed:</b>	Emergency Services
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	\$75,000
<b>Potential Funding Sources:</b>	CIP
<b>Lead Agency/Department Responsible:</b>	ComIT
<b>Implementation Schedule:</b>	ASAP

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy ▪ 3 = Moderately Satisfies ▪ 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**ADDITIONAL COMMENTS**

With the opening of the new EOC, PIO will move to the JIC during city-declared emergencies. However, there will be times before and after a declared situation in which power will be essential for delivering emergency preparedness and mitigation information from Building 22. Without a generator, PIO will be very susceptible to service disruptions during these periods.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 22**

The city should consider the identification of existing critical intersections for emergency power and quick connect for wiring 80 intersections out of 220.

**BACKGROUND INFORMATION**

**Site and Location:** Critical Intersections identified by Police Department and Public Works

**History of Damages:** N/A

**MITIGATION ACTION DETAILS**

**Hazard(s) Addressed:** Wind

**Category/Goal(s) Addressed:** Emergency Services

**Priority (High, Moderate, Low):**

**Estimated Cost:** \$2.5 million

**Potential Funding Sources:** HMGP, CIP

**Lead Agency/Department Responsible:** Public Works/Management Services

**Implementation Schedule:** TBA

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Technically Feasible:**1 ☐2 ☐3 ☐4 ☒5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☐4 ☒5 ☐**Environmentally Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**ADDITIONAL COMMENTS**

This initiative would provide protection and continuity of services at critical intersections. Power would be provided for city television cameras to monitor traffic conditions during power failures. The implementation is based upon availability of funding.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 23**

Upgrade backup power plant for the Municipal Center PBX phone switching station to avoid loss of telephone service when commercial power fails. This switching station provides telephone service to the Municipal Center Campus including multiple remote sites, as well as future E911 phone service.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Building 18 Municipal Center Virginia Beach, VA 23456
<b>History of Damages:</b>	<ul style="list-style-type: none"> <li>• 1980's Municipal Center PBX lost power due to drained battery backup. Generator was installed with a 4-day capacity</li> <li>• 1997 installed/upgraded new generator for Municipal Center PBX with a 22-day capacity</li> <li>• 2004 PBX lost power due to aging power plant battery</li> </ul>

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Emergency Services
<b>Category/Goal(s) Addressed:</b>	Protection of Critical Facilities
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	Estimated at \$60,000.00 to \$80,000.00
<b>Potential Funding Sources:</b>	Telecommunications Budget and CIP
<b>Lead Agency/Department Responsible:</b>	ComIT/Telecommunications
<b>Implementation Schedule:</b>	FY 06

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

## **LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

### **ADDITIONAL COMMENTS**

#### **Efforts to Date:**

- Continuing monthly generator checks
- 2004 replaced/upgraded aging batteries
- 2005 implemented a monthly maintenance check on backup power system
- Currently underway – assessment of entire power plant
- Currently underway – correction of any power related issues found
- Currently underway – awaiting proposal from maintenance vendor for increase in capacity to sustain the Municipal Center's telephone system and associated applications such as Voice Mail, ACD, and future IVR

#### **Actions:**

Immediate: To implement the best power strategy for the Municipal Center's PBX telephone switch and associated telephone services.

Long Term: To continue to evaluate opportunities to improve redundancy for Municipal Center's PBX telephone switch and associated telephone services.

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**VIRGINIA BEACH MITIGATION ACTION 24**

The city will work with the COE and federal government to ensure the maintenance of the Hurricane Protection Project and other maintained beaches within the city.

**BACKGROUND INFORMATION****Site and Location:** Resort, Sandbridge**History of Damages:** Several Erosion Events**MITIGATION ACTION DETAILS****Hazard(s) Addressed:** Flooding**Category/Goal(s) Addressed:** Natural Resource Protection**Priority (High, Moderate, Low):****Estimated Cost:****Potential Funding Sources:** COE, CIP, Special Tax District, TGIF, SSD, TIF**Lead Agency/Department Responsible:** Public Works**Implementation Schedule:****ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy • 3 = Moderately Satisfies • 5 = Strongly Satisfies)

**Socially Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Technically Feasible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Administratively Possible:**1 ☐2 ☐3 ☒4 ☐5 ☐**Politically Acceptable:**1 ☐2 ☐3 ☐4 ☒5 ☐**Legal:**1 ☐2 ☐3 ☐4 ☐5 ☒**Economically Sound:**1 ☐2 ☐3 ☐4 ☐5 ☒**Environmentally Sound:**1 ☐2 ☐3 ☒4 ☐5 ☐**ADDITIONAL COMMENTS**

The city should seek to maintain currently engineered and maintained beaches, as well as seek additional beaches to be considered for engineering status.

# Windsor

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**WINDSOR MITIGATION ACTION 1**

Installation of back-up generators for traffic signals at street intersections along evacuation route, as well as provide portable signal or caution lights, which can be used in concert with the previously mentioned generators. This will assist in maintaining an organized flow of traffic during times of crisis/emergency.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Intersections in the Town of Windsor: Rt. 460 and Rt. 258 Rt. 460 and Church, Court and Bank Streets (6-way intersection) Rt. 460 and Traffic Signal at Food Lion/Windsor Common retail center.
<b>History of Damages:</b>	During Hurricane Isabel, there were many collisions as a result of the lengthy power outage, which left the traffic signals along the Rt. 460 corridor through Windsor inoperative.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Power Outage
<b>Category/Goal(s) Addressed:</b>	Structural Project
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	
<b>Potential Funding Sources:</b>	Federal Pre-Disaster Mitigation (PDM) and Hazard Mitigation Grant Program (HMGP) fund, VDOT funds
<b>Lead Agency/Department Responsible:</b>	
<b>Implementation Schedule:</b>	

**ADDITIONAL CONSIDERATIONS**

The following STAPLEE criteria were evaluated on a scale of 1 to 5 indicating the extent to which this action satisfies each consideration. (1 = Does Not Satisfy ▪ 3 = Moderately Satisfies ▪ 5 = Strongly Satisfies)

**Socially Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Technically Feasible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Administratively Possible:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	---------------------------------------	----------------------------	----------------------------

**Politically Acceptable:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	----------------------------	----------------------------	---------------------------------------	----------------------------

**Legal:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------

**Economically Sound:**

1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
----------------------------	---------------------------------------	----------------------------	----------------------------	----------------------------

**Environmentally Sound:**

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>
----------------------------	----------------------------	----------------------------	----------------------------	---------------------------------------



## LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK

Jurisdiction: Southside Hampton Roads Region

### ADDITIONAL COMMENTS

During Hurricane Isabel, evacuation traffic was extremely heavy and those people seeking shelter inland assumed they had the right-of-way, which was the cause of many collisions. As with many localities, local law enforcement and emergency personnel were taxed to the greatest extent, such that they could not adequately address the mass evacuation traffic. Installation and/or procurement of this equipment will ensure the organized flow of traffic and greatly decrease the number of collisions, which again will increase the amount of traffic flow along the evacuation route. This proposal will also serve to assist the law enforcement and emergency service personnel to move safer into an intersection, as well as relieve the need for them to address situations resulting from traffic accidents.

Respectfully submitted,  
Kurt A. Falkenstein, Town Manager,  
Windsor

### FOR OFFICIAL USE ONLY

The following table (**Table AB-1**) lists all of the critical public facilities in the Southside Hampton Roads Region as listed in the HAZUS-MH software. This list was also supplemented with data provided from local GIS departments. The listing includes Emergency Operations Centers, Fire/Rescue Facilities, Police/Law Enforcement Facilities, Schools, Hospital and Medical Care Facilities, Ports, HAZMAT facilities, Water Treatment Facilities and Wastewater Treatment Facilities.

**Figures AB1-AB5** depict the general location of these facilities in each jurisdiction. Each of these facilities are vulnerable to hazards that impact the region uniformly such as hurricanes, tropical storms, severe thunderstorms, lightning, tornadoes, winter storms (including nor'easters), earthquakes, and drought and therefore can also be considered the hazard area map for those hazards.

TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES			
FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Carrollton Volunteer Fire Dept	Fire/Rescue Facility	15020 Carrollton Blvd	Isle of Wight County
Carrollton Elementary	School	14440 New Town Have Lane	Isle of Wight County
Brewers Creek Subdivision	Water System Facility	State Route 661 at Marsh View Ct.	Isle of Wight County
Carrsville Volunteer Fire Dept	Fire/Rescue Facility	6201 Carrsville Hwy	Isle of Wight County
Carrsville Elementary	School	5355 Carrsville Highway	Isle of Wight County
Portsmouth Christian School	School	3214 Elliott Ave	Portsmouth
Ingersoll Dresser Pump	HAZMAT Facility	3900 Cook Boulevard	Chesapeake
Isle of Wight Crime Line	Law Enforcement Facility	17110 Monument Cir # C	Isle of Wight County
Isle of Wight County Sheriff	Law Enforcement Facility	17110 Monument Cir	Isle of Wight County
Isle of Wight Academy	School	P.O. Box 105	Isle of Wight County
International Paper Company	HAZMAT Facility	33320 Lynn Road	Isle of Wight County
City of Portsmouth WTP	Water Treatment Facility		Nansemond County
Norfolk Fire Dept	Fire/Rescue Facility	100 Brooke Ave # 500	Norfolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Norfolk Fire Training & Dev	Fire/Rescue Facility	7120 Granby St	Norfolk
Norfolk Fire Station No 1	Fire/Rescue Facility	450 St. Pauls Boulevard	Norfolk
Norfolk Fire Station No 2	Fire/Rescue Facility	2501 Church Street	Norfolk
Norfolk Fire Station No 4	Fire/Rescue Facility	5909 Poplar Hall Drive	Norfolk
Norfolk Fire Station No 6	Fire/Rescue Facility	714 Pembroke Ave	Norfolk
Norfolk Fire Station No 7	Fire/Rescue Facility	1211 W 43rd Street	Norfolk
Norfolk Fire Station No 8	Fire/Rescue Facility	526 Frederick Street	Norfolk
Norfolk Fire Station No 9	Fire/Rescue Facility	115 Thole Street	Norfolk
Norfolk Fire Station No 10	Fire/Rescue Facility	4100 Virginia Beach Boulevard	Norfolk
Norfolk Fire Station No 11	Fire/Rescue Facility	3127 Verdun Avenue	Norfolk
Norfolk Fire Station No 12	Fire/Rescue Facility	1650 West Little Creek Road	Norfolk
Norfolk Fire Station No 13	Fire/Rescue Facility	176 Maple Avenue	Norfolk
Norfolk Fire Station No 14	Fire/Rescue Facility	1460 Norview Avenue	Norfolk
Norfolk Fire Station No 15	Fire/Rescue Facility	1425 Fisherman Road	Norfolk
Norfolk Fire Station No 16	Fire/Rescue Facility	7924 Camellia Road	Norfolk
Norfolk Criminal Intelligence	Law Enforcement Facility	100 Brooke Ave # 102	Norfolk
Norfolk Operations Bureau	Law Enforcement Facility	100 Brooke Ave	Norfolk
Norfolk Criminal Division	Law Enforcement Facility	100 Saint Pauls Blvd	Norfolk
Norfolk Sheriff's Civil Processing	Law Enforcement Facility	125 Saint Pauls Blvd # 211	Norfolk
SHORE Patrol	Law Enforcement Facility	140 East St	Norfolk
Norfolk First Patrol Division	Law Enforcement Facility	3661 E Virginia Beach Blvd	Norfolk
Norfolk Criminal Justice Service	Law Enforcement Facility	549 E Brambleton Ave # 7	Norfolk
Norfolk Pistol Range Office	Law Enforcement Facility	6101 Cape Henry Ave	Norfolk
Norfolk Second Patrol Division	Law Enforcement Facility	7665 Sewells Point Rd	Norfolk
Norfolk City Sheriff	Law Enforcement Facility	811 E City Hall Ave	Norfolk
Norfolk Special Enforcement	Law Enforcement Facility	975 Goff St	Norfolk
Alpha Beta Cappa Academy	School	7425 Chesapeake Boulevard	Norfolk
Arrowhead Child Care Limited	School	5980 Curlew Drive	Norfolk
Azalea Garden Middle School	School	7721 Azalea Gardens Road	Norfolk
B.T. Washington High School	School	1111 Park Avenue	Norfolk
Barry Robinson Center	School	433 Kempsville Road	Norfolk
Bay View Elementary	School	1434 Bay View Boulevard	Norfolk
Bayview Christian School	School	707 Bayview Boulevard	Norfolk
Blair Middle School	School	730 Spotsville Avenue	Norfolk
Bowling Park Elementary	School	2861 E. Princess Anne Road	Norfolk
Calvary Academy of the King	School	2331 E. Little Creek Road	Norfolk
Camp Allen Elementary	School	501 C Street	Norfolk
Campostella Elementary	School	1106 Campostella Rd	Norfolk
Chesterfield Heights Elementary	School	2915 Westminster Ave	Norfolk
Christ the King Elementary School	School	3401 Tidewater Drive	Norfolk
Coleman Place Elementary	School	2450 Rush St	Norfolk
Computer Tutoring Enterprises	School	1134 Norview Avenue	Norfolk
Coronado School	School	1025 Widgeon Road	Norfolk
Crossroads Elementary	School	7920 Tidewater Dr	Norfolk
Easton Preschool	School	6045 Curlew Drive	Norfolk
ECC at Stuart	School	424 Carolina Avenue	Norfolk
ECC-Berkley/Campostella	School	1530 Cypress Street	Norfolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Fairlawn Elementary	School	1132 Wade Street	Norfolk
Faith Academy School of Excellence	School	1010 E. 26 <sup>th</sup> Street	Norfolk
First Presbyterian Church	School	820 Colonial Avenue	Norfolk
Ghent Elementary	School	200 Shirley Ave	Norfolk
Ghent Montessori School	School	610 Mowbray Arch	Norfolk
Governor's School for the Arts	School	1335 W. 43 <sup>rd</sup> Street	Norfolk
Grace Baptist School	School	3423 Sewells Point Road	Norfolk
Granby Elementary	School	7101 Newport Ave	Norfolk
Granby High School	School	7101 Granby St	Norfolk
Ingleside Elementary	School	976 Ingleside Drive	Norfolk
Jacox Elementary	School	1300 Marshall Ave	Norfolk
James Monroe Elementary	School	520 W. 29 <sup>th</sup> Street	Norfolk
Junior Academy Christian School	School	969 Philpotts Road	Norfolk
Lafayette-Winona Middle School	School	1701 Alsace Avenue	Norfolk
Lake Taylor High	School	1384 Kempsville Road	Norfolk
Lake Taylor Middle	School	1380 Kempsville Road	Norfolk
Larchmont Elementary School	School	1145 Boiling Avenue	Norfolk
Larrymore Elementary School	School	7600 Halprin Drive	Norfolk
Lindenwood Elementary School	School	2700 Ludlow Street	Norfolk
Little Creek Elementary School	School	7900 Tarpon Place	Norfolk
Loch Meadow Kindergarten Inc	School	7400 Hampton Boulevard	Norfolk
Madison Career Center	School	3700 Bowdens Ferry Road	Norfolk
Mary Calcott Elementary	School	137 Westmont Ave	Norfolk
Maury High	School	322 Shirley Ave	Norfolk
McLea School	School	745 Backner Road	Norfolk
New Start-Skills Center	School	922 W. 21 <sup>st</sup> Street	Norfolk
New Start-Tucker Center	School	2300 E. Berkley Avenue	Norfolk
Norfolk Academy	School	1585 Wesleyan Drive	Norfolk
Norfolk Alternative High	School	3700 Bowden Ferry Road	Norfolk
Norfolk Alternative Middle	School	3700 Bowden Ferry Road	Norfolk
Norfolk Christian Discovery Center	School	Granby – Seekle Street	Norfolk
Norfolk Christian High School	School	255 Thole Street	Norfolk
Norfolk Collegiate School	School	7336 Granby Street	Norfolk
Norfolk Masjid/Islamic School	School	3401 Granby Street	Norfolk
Norfolk Preparatory High	School	3700 Bowden Ferry Road	Norfolk
Norfolk Tech-Vocational Center	School	1330 N Military Highway	Norfolk
Northside Middle	School	6325 Sewells Point Road	Norfolk
Norview Elementary	School	6401 Chesapeake Boulevard	Norfolk
Norview High	School	1070 Middleton Place	Norfolk
Norview Middle	School	6325 Sewells Point Road	Norfolk
Oakwood Elementary	School	900 Ashbury Ave	Norfolk
Ocean View Elementary	School	9501 Mason Creek Road	Norfolk
Oceanair Elementary	School	600 Dudley Ave	Norfolk
Oceanview Baptist Church	School	9504 Selby Pl	Norfolk
Parkdale Private School, Inc	School	321 Virginian Drive	Norfolk
Poplar Halls Elementary	School	5523 Pebble Lane	Norfolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Roberts Park Elementary	School	2600 E. Princess Anne Road	Norfolk
Rosemont Middle	School	1330 Branch Road	Norfolk
Ruffner Middle	School	489 Tidewater Drive	Norfolk
Ryan Academy of Norfolk	School	844 Jerome Avenue	Norfolk
Sewells Point Elementary	School	7928 Hampton Boulevard	Norfolk
Sherwood Forest Elementary	School	3035 Sherwood Forest Lane	Norfolk
Southeast Coop. Ed. Program	School	861 Glenrock Road Suite 140	Norfolk
Sr. Clara Muhammad School	School	P.O. Box 1066	Norfolk
St. Helena Elementary	School	903 S Main Street	Norfolk
St. John Lutheran School	School	8918 Tidewater Drive	Norfolk
St. Mary Academy Elementary School	School	921 Holt Street	Norfolk
St. Mary's Infant Home	School	317 Chapel Street	Norfolk
St. Peter's Day School	School	224 S. Military Highway	Norfolk
St. Pius School	School	7800 Halprin Drive	Norfolk
Stuart Gifted Center	School	446 Virginia Ave	Norfolk
Suburban Park Elementary	School	310 Thole Street	Norfolk
Tanners Creek Elementary	School	1335 Longdale Drive	Norfolk
Tarrallton Elementary	School	2080 Tarrallton Drive	Norfolk
Tidewater Park Elementary	School	1045 E. Brambleton Ave	Norfolk
Town-Country Day School	School	1421 Kempsville Road	Norfolk
True Vine Baptist School	School	8471 Chesapeake Boulevard	Norfolk
W.H. Taylor Elementary	School	1122 W. Princess Anne Road	Norfolk
West Ghent School	School	1004 Graydon Avenue	Norfolk
Willard Model Elementary	School	1511 Willow Wood Drive	Norfolk
Willoughby Elementary	School	9500 4 <sup>th</sup> View Street	Norfolk
Young Park Elementary	School	543 E. Olney Road	Norfolk
Norfolk Emergency Management	Emergency Operations Center	3361 E. Virginia Beach Boulevard	Norfolk
Bon Secours-Depaul Medical Center	Hospital or Medical Care Facility	150 Kingsley Lane	Norfolk
Children's Hospital	Hospital or Medical Care Facility	601 Children's Lane	Norfolk
Sentara Leigh Hospital	Hospital or Medical Care Facility	830 Kempsville Road	Norfolk
Sentara General Hospital	Hospital or Medical Care Facility	600 Gresham Drive	Norfolk
Lake Taylor Hospital	Hospital or Medical Care Facility	1309 Kempsville Road	Norfolk
St. Mary's Home for Children	Hospital or Medical Care Facility	317 Chapel Street	Norfolk
Norfolk Psychiatric Center	Hospital or Medical Care Facility	860 Kempsville Road	Norfolk
M/V Kanak Ltd. Mooring.	Port	151 South Main Street	Norfolk
Metro Machine Corp., Berkley Facility, P	Port	200 Ligon Street	Norfolk
Allied Terminals Wharf and Moorings.	Port	1000 Lansing Street	Norfolk
Tarmac Virginia, Campostella Plant Wharf	Port	2125 Kimball Terrace	Norfolk
Norfolk Shipbuilding & Drydock Corp., So	Port	2401 Kimball Terrace	Norfolk
Norfolk Shipbuilding & Drydock Corp., So	Port	2401 Kimball Terrace	Norfolk
J. H. Miles & Co., Clam Shell Loading Pi	Port	902 Southampton Avenue	Norfolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Norfolk International Terminals, Contain	Port	7737 Hampton Boulevard	Norfolk
Metro Machine Corp., Berkley Facility, P	Port	200 Ligon Street	Norfolk
Metro Machine Corp., Berkley Facility, D	Port	200 Ligon Street	Norfolk
Tamac Virginia, Berkley Plant Wharf.	Port	Foot of Mulberry Street	Norfolk
Tamac Virginia, Norfolk Marine Departme	Port	Foot of Mulberry Street	Norfolk
Tamac Virginia, Norfolk Marine Departme	Port	Foot of Mulberry Street	Norfolk
Bay Towing Corp., East Wharf.	Port	914 Pearl Street	Norfolk
Bay Towing Corp., East Pier.	Port	914 Pearl Street	Norfolk
Bay Towing Corp., West Pier.	Port	914 Pearl Street	Norfolk
Norfolk Shipbuilding & Drydock Corp., Be	Port	750 Berkley Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Be	Port	750 Berkley Avenue	Norfolk
Lambert's Point Docks, Sewell's Point Di	Port	Hampton Boulevard	Norfolk
Colonna's Shipyard, Mooring Wharf.	Port	400 East Indian River Road	Norfolk
Colonna's Shipyard, Pier No. 1.	Port	400 East Indian River Road	Norfolk
Colonna's Shipyard, Pier No. 2.	Port	400 East Indian River Road	Norfolk
Cargill, Norfolk Southern (North) Grain	Port	8801 Hampton Boulevard	Norfolk
Colonna's Shipyard, Pier No. 3.	Port	400 East Indian River Road	Norfolk
Colonna's Shipyard, Pier No. 4.	Port	400 East Indian River Road	Norfolk
Colonna's Shipyard, Pier No. 5.	Port	400 East Indian River Road	Norfolk
Colonna's Shipyard, Pier No. 6.	Port	400 East Indian River Road	Norfolk
Colonna's Shipyard, Pescara Creek Moorin	Port	400 East Indian River Road	Norfolk
Colonna's Shipyard, Pescara Creek Wharf.	Port	400 East Indian River Road	Norfolk
Marpol Wharf.	Port	150 South Main Street	Norfolk
Norfolk Shipbuilding & Drydock Corp., So	Port	2401 Kimball Terrace	Norfolk
Norfolk Shipbuilding & Drydock Corp., So	Port	2401 Kimball Terrace	Norfolk
Norfolk Shipbuilding & Drydock Corp., So	Port	2401 Kimball Terrace	Norfolk
Chevron U.S.A., Asphalt Division, Norfol	Port	Westminster Avenue and Kimball Terrac	Norfolk
Tarmac Virginia, Westminster Yard Wharf.	Port	3425 Westminster Avenue	Norfolk
Va. Dry Dock Corp. Wharf.	Port	307 Campostella Road	Norfolk
Marine Hydraulics International Wharves.	Port	800 East Indian River Road	Norfolk
Todd Marine Enterprises Moorings.	Port	508 East Indian River Road	Norfolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Norfolk Shipbuilding & Drydock Corp., Br	Port	Foot of Claiborne Avenue	Norfolk
Tillett Oil Transport Mooring.	Port	1235 East Water Street	Norfolk
City of Norfolk, Municipal Stadium Moor	Port	East Water Street	Norfolk
Moran Towing of Virginia, Pier No. 1.	Port	Foot of Brown Avenue	Norfolk
Moran Towing of Virginia, Pier No. 2.	Port	Foot of Brown Avenue	Norfolk
Lyon Shipyard, Piers Nos. 1 and 2.	Port	Foot of Brown Avenue	Norfolk
Lyon Shipyard, Piers Nos. 3 and 4.	Port	Foot of Brown Avenue	Norfolk
Lyon Shipyard, Pier No. 5.	Port	Foot of Willoughby Avenue	Norfolk
Lyon Shipyard, Piers Nos. 6 and 7.	Port	Foot of Willoughby Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Br	Port	Foot of Claiborne Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Br	Port	Foot of Claiborne Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Br	Port	Foot of Claiborne Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Br	Port	Foot of Claiborne Avenue	Norfolk
Elizabeth River Land Co., West Mooring.	Port	1125 East Water Street	Norfolk
Corps of Engineers, Fort Norfolk Hopper	Port	803 Front Street	Norfolk
Corps of Engineers, Fort Norfolk Wharf.	Port	803 Front Street	Norfolk
Jonathan Corp., Front Street Yard Inner	Port	701 Front Street	Norfolk
Jonathan Corp., Front Street Yard Outer	Port	701 Front Street	Norfolk
Virginia Marine Resources Commission, Fr	Port	561 Front Street	Norfolk
National Oceanic and Atmospheric Adminis	Port	561 Front Street	Norfolk
Moon Engineering Co., Norfolk Pier.	Port	545 Front Street	Norfolk
National Oceanic and Atmospheric Adminis	Port	439 West York Street	Norfolk
City of Norfolk, Freemason Harbour Slip.	Port	Foot of Brooke Avenue	Norfolk
City of Norfolk, Nauticus Pier.	Port	Foot of Main Street	Norfolk
City of Norfolk, Otter Berth Slip.	Port	333 Waterside Drive	Norfolk
City of Norfolk, Waterside Municipal Mar	Port	333 Waterside Drive	Norfolk
City of Norfolk, Liverpool Berth Landing	Port	333 Waterside Drive	Norfolk
Corps of Engineers, Fort Norfolk Pier.	Port	803 Front Street	Norfolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
J. H. Miles & Co., Storage Building Pier	Port	902 Southampton Avenue	Norfolk
International Oceanic Enterprises, Seafo	Port	900 Southampton Avenue	Norfolk
J. H. Miles & Co., Mooring Pier.	Port	902 Southampton Avenue	Norfolk
J. H. Miles & Co., Main Plant Wharf.	Port	902 Southampton Avenue	Norfolk
Sandy Point Launch Service, Norfolk Whar	Port	900 Southampton Avenue	Norfolk
International Oceanic Enterprises, Moorin	Port	900 Southampton Avenue	Norfolk
Pilot Marine Corp. Piers.	Port	904 Southampton Avenue	Norfolk
Metro Machine Corp., Mid-Atlantic Steel	Port	1118 Warrington Avenue	Norfolk
Lambert's Point Docks, Lambert's Point D	Port	Foot of Orapax Avenue	Norfolk
Lambert's Point Docks, Lambert's Point D	Port	Foot of Orapax Avenue	Norfolk
Lambert's Point Docks, Lamberts Point Di	Port	Foot of Orapax Avenue	Norfolk
Norfolk Southern Railway Co., Lamberts P	Port	2200 Redgate Avenue	Norfolk
Lambert's Point Docks, Lamberts Point Di	Port	Foot of Orapax Avenue	Norfolk
Norfolk Southern Railway Co., Lamberts P	Port	2200 Redgate Avenue	Norfolk
Norfolk International Terminals, Contain	Port	7737 Hampton Boulevard	Norfolk
Norfolk International Terminals, Contain	Port	7737 Hampton Boulevard	Norfolk
Norfolk International Terminals, Contain	Port	7737 Hampton Boulevard	Norfolk
Norfolk International Terminals, Pier No	Port	7737 Hampton Boulevard	Norfolk
Norfolk International Terminals, Pier No	Port	7737 Hampton Boulevard	Norfolk
Norfolk International Terminals, North B	Port	7737 Hampton Boulevard	Norfolk
Norfolk Shipbuilding & Drydock Corp., Be	Port	750 Berkley Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Be	Port	750 Berkley Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Be	Port	750 Berkley Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Be	Port	750 Berkley Avenue	Norfolk
Norfolk Shipbuilding & Drydock Corp., Be	Port	750 Berkley Avenue	Norfolk
Marine Oil Service, Berkley Mooring, Pie	Port	1421 South Main Street	Norfolk
Williams Enterprises, Berkley Mooring, P	Port	1421 South Main Street	Norfolk



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Carter Machinery Co., Berkley Plant Pier	Port	1601 South Main Street	Norfolk
Norfolk International Terminals, North E	Port	7737 Hampton Boulevard	Norfolk
Lehigh Portland Cement Co., Norfolk Term	Port	8501 Hampton Boulevard	Norfolk
Ecolochem Inc.	Water Treatment Facility	4545 Patent Road	Norfolk
City of Norfolk – 37 <sup>th</sup> St. Water Treatment Facility	Water Treatment Facility	3719 Parker Ave.	Norfolk
Norfolk Division of Water	Water Treatment Facility	6040 Waterworks Road	Norfolk
City of Norfolk	Waste Water Treatment Facility	415 Saint Paul's Boulevard	Norfolk
HRSD Army Base Sewage Treatment Plant	Waste Water Treatment Facility	401 Lagoon Road	Norfolk
HRSD Virginia Initiative Plant	Waste Water Treatment Facility	4201 Powhatan Road	Norfolk
			Norfolk
Maryview Medical Center	Hospital or Medical Facility	3636 High Street	Portsmouth
Naval Medical Center	Hospital or Medical Facility	620 John Paul Jones Circle	Portsmouth
Associated Naval Architects, Pier No. 1.	Port	3400 Shipwright Street	Portsmouth
Cogentrix Virginia Leasing Corp., Portsm	Port	Foot of West Norfolk Road	Portsmouth
U.S. Coast Guard, Portsmouth Support Cen	Port	4000 Coast Guard Boulevard	Portsmouth
U.S. Coast Guard, Portsmouth Support Cen	Port	4000 Coast Guard Boulevard	Portsmouth
U.S. Coast Guard, Portsmouth Support Cen	Port	4000 Coast Guard Boulevard	Portsmouth
Corps of Engineers, Craney Island Manage	Port	4599 River Shore Road	Portsmouth
Associated Naval Architects, Pier No. 3.	Port	3400 Shipwright Street	Portsmouth
City of Portsmouth, Portside Slip, Publi	Port	6 Crawford Parkway	Portsmouth
Russell's Crab House Wharf	Port	Foot of North Elm Avenue	Portsmouth
Harbor Tours, 'Carrie B' Mooring	Port	End of Bay Street	Portsmouth
Crofton Diving Corp. Mooring	Port	16 Harper Avenue	Portsmouth
Moon Engineering Co., Portsmouth Yard Pi	Port	2 Harper Avenue	Portsmouth
Sea-Land Service, Inc.	Port	1800 Seaboard Avenue	Portsmouth
Portsmouth Marine Terminal Wharf	Port	2000 Seaboard Avenue	Portsmouth
W.F. Magann Corp. Wharf	Port	101 Chautauqua Avenue	Portsmouth
W.F. Magann Corp. Mooring	Port	Adams Street	Portsmouth
Western Branch Diesel Wharf	Port	3504 Shipwright Street	Portsmouth
Associated Naval Architects, Piers Nos	Port	3400 Shipwright Street	Portsmouth
Associated Naval Architects, Pier No. 4	Port	3400 Shipwright Street	Portsmouth
Alcoa, Paradise Point Transfer Station P	Port	Foot of Alcoa Drive	Portsmouth
Olympic Marine Services,	Port	3950 Burtons Point Road	Portsmouth



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Southern Branch			
Whitehorse Marine Mooring	Port	3965 Burtons Point Road	Portsmouth
Atlantic Wood Industries Pier	Port	3950 Elm Avenue	Portsmouth
City of Portsmouth Wastewater Treatment Plant	Wastewater Treatment Facility	801 Crawford Street	Portsmouth
Cogentrix Virginia Leasing Corporation	Power Plant	1 Wild Duck Lane	Portsmouth
SPSA Refuse Derived Fuel Plant	Power Plant	3809 Elm Avenue	Portsmouth
Norfolk Naval Shipyard	HAZMAT Facility	Intersection of Effingham Street and George	Portsmouth
Sherwin-Williams Co. of Portsmouth	HAZMAT Facility	3560 Elm Street	Portsmouth
Celanese Chemical Division	HAZMAT Facility	3230 W. Norfolk Road	Portsmouth
BASF Corp. – Portsmouth Plant	HAZMAT Facility	3340 W. Norfolk Road	Portsmouth
Portsmouth Fire Station	Fire/Rescue Facility	1120 Portsmouth Blvd	Portsmouth
Fire Station	Fire/Rescue Facility	1195 Hodges Ferry Rd	Portsmouth
Portsmouth Fire Dept	Fire/Rescue Facility	309 County St # 100	Portsmouth
Portsmouth Fire Station	Fire/Rescue Facility	32 Prospect Pkwy	Portsmouth
Portsmouth Fire Station	Fire/Rescue Facility	3230 Victory Blvd	Portsmouth
Portsmouth Fire Station	Fire/Rescue Facility	3901 Winchester Dr	Portsmouth
Portsmouth Fire Station	Fire/Rescue Facility	445 Lee Ave	Portsmouth
Portsmouth Police Dept Cmpnd	Law Enforcement Facility	2003 Frederick Blvd	Portsmouth
Portsmouth Police Detectives	Law Enforcement Facility	311 County St	Portsmouth
Police Training Unit	Law Enforcement Facility	601 Effingham St # 120	Portsmouth
Portsmouth Police Dept	Law Enforcement Facility	711 Crawford St	Portsmouth
Portsmouth Police Dept	Law Enforcement Facility	900 Frederick Blvd	Portsmouth
Portsmouth Catholic Elementary	School	2301 Oregon Avenue	Portsmouth
Sweethaven Christian Academy	School	5100 West Norfolk Road	Portsmouth
Alliance Christian Schools, Inc	School	5809 Portsmouth Boulevard	Portsmouth
Central Baptist Church School	School	1200 Hodges Ferry Road	Portsmouth
Court Street Academy	School	Court and Queen Streets	Portsmouth
The St. Christopher School	School	PO Box 6103	Portsmouth
Montessori Preparatory School	School	4811 High Street W PO Box 6102	Portsmouth
Pines Treatment Center	School	825 Crawford Parkway	Portsmouth
Busy Bee Nursery – Kindergarten	School	404 Hanbury Avenue	Portsmouth
Joyous Sound Education and Enrichment Center	School	205 Gust Lane	Portsmouth
Churchland High	School	4301 Cedar Lane	Portsmouth
New Directions Center	School	Manor Commerce Center	Portsmouth
Cradock Middle	School	21 Alden Ave	Portsmouth
Brighton Elementary	School	1101 Jefferson Street	Portsmouth
Churchland Elementary	School	5601 Michael Lane	Portsmouth
Churchland Middle	School	4051 River Shore Road	Portsmouth
Churchland Primary/Intermediate	School	5700 Hedgerow Lane	Portsmouth
DAC Center	School	401 West Rd	Portsmouth
Douglass Park Elementary	School	34 Grand Street	Portsmouth
Emily Spong Elementary	School	2200 Piedmont Avenue	Portsmouth
Hunt/Mapp Middle	School	3701 Willett Drive	Portsmouth

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Highland Biltmore Elementary	School	10 Independence Street	Portsmouth
Hodges Manor Elementary	School	1201 Cherokee Road	Portsmouth
I.C. Norcom High	School	1801 London Boulevard	Portsmouth
S.H. Clarke Community Academy	School	2801 Turnpike Road	Portsmouth
James Hurst Elementary	School	18 Dahlgreen Avenue	Portsmouth
John Tyler Elementary	School	3649 Hartford Street	Portsmouth
Lakeview Elementary	School	1300 Home Ave	Portsmouth
Woodrow Wilson High	School	1401 Elmhurst Lane	Portsmouth
Mount Hermon Elementary	School	3000 North Street	Portsmouth
Olive Branch Elementary	School	415 Mimosa Road	Portsmouth
Park View Elementary	School	1401 Crawford Parkway	Portsmouth
Port Norfolk Elementary	School	3101 Detroit Street	Portsmouth
Shea Terrace Elementary	School	253 Constitution Ave	Portsmouth
Simonsdale Elementary	School	132 Byers Ave	Portsmouth
Westhaven Elementary	School	3701 Clifford Street	Portsmouth
William E. Waters Middle	School	600 Roosevelt Boulevard	Portsmouth
Excel Campus	School	1401 Elmhurst Lane	Portsmouth
Churchland Academy Elementary	School	4061 Rivershore Road	Portsmouth
Rushmere VFD	Fire/Rescue Facility	5354 Old Stage Highway	Isle of Wight County
Smithfield Packing Co.	HAZMAT Facility	501 North Church Street	Smithfield
Ashby Subdivision Water Supply	Water System Facility		Smithfield
Smithfield Rescue Squad	Fire/Rescue Facility	1802 S Church St # A	Smithfield
Smithfield Town Adm	Fire/Rescue Facility	310 Institute St	Smithfield
Smithfield Volunteer Fire Dept	Fire/Rescue Facility	310 Institute St	Smithfield
Smithfield Police Department	Law Enforcement Facility	310 Institute St	Smithfield
Peninsula Christian School	School	14353 Benns Church Boulevard	Smithfield
Hardy Elementary	School	9311 Hardy Circle	Smithfield
Smithfield Middle	School	800 Main Street	Smithfield
Obici Hospital	Hospital or Medical Care Facility	2800 Godwin Boulevard	Suffolk
Dixon's Oyster House Wharf	Port	White Dogwood Terrace	Suffolk
G. Robert House Water Treatment Plant	Water Treatment Facility	1 Bob House Parkway	Suffolk
HRSD Nansemond WWTP	Wastewater Treatment Facility	6900 College Drive	Suffolk
Pow. Gen. (Suffolk) and Suffolk Energy Partners	Power Plant	1 Bob Foeller Drive	Suffolk
CIBA Specialty Chemicals	HAZMAT Facility	2301 Wilroy Road	Suffolk
La Roche Industries	HAZMAT Facility	105 Dill Road	Suffolk
Univar, Suffolk	HAZMAT Facility	201 Suburban Drive	Suffolk
QVC	HAZMAT Facility	1 QVC Drive	Suffolk
Royster-Clark, Inc.	HAZMAT Facility	672 Carolina Road	Suffolk
Suffolk Fire and Rescue, Station 1	Fire/Rescue Facility	400 Market Street	Suffolk
Suffolk Fire and Rescue, Station 2	Fire/Rescue Facility	428 Market Street	Suffolk
Suffolk Fire and Rescue, Station 3	Fire/Rescue Facility	1001 Whitemarsh Road	Suffolk
Suffolk Fire and Rescue, Station	Fire/Rescue Facility	837 Lake Kilby Road	Suffolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
4			
Suffolk Fire and Rescue, Station 5	Fire/Rescue Facility	3901 Bridge Road	Suffolk
Suffolk Fire and Rescue, Station 7	Fire/Rescue Facility	6666 O'Kelly Drive	Suffolk
Suffolk Fire and Rescue, Station 8	Fire/Rescue Facility	6235 Whaleyville Boulevard	Suffolk
Suffolk Fire and Rescue, Station 9	Fire/Rescue Facility	300 Kings Highway	Suffolk
Suffolk Fire and Rescue, Station 10	Fire/Rescue Facility	4869 Bennetts Pasture Road	Suffolk
Suffolk Animal Control	Law Enforcement Facility	117 Forest Glen Dr	Suffolk
Suffolk Police Headquarters	Law Enforcement Facility	129 N Wellons St	Suffolk
Suffolk Sheriff's Office	Law Enforcement Facility	424 N Main St	Suffolk
Suffolk Police Precinct 1	Law Enforcement Facility	230 East Washington Street	Suffolk
Suffolk Police Precinct 2	Law Enforcement Facility	3901 Bridge Road	Suffolk
Virginia Beach Sheriff's Ofc	Law Enforcement Facility	1 Municipal Ctr Bldg 7	Virginia Beach
General District Ct-Criminal	Law Enforcement Facility	2305 Judicial Blvd Bldg 10	Virginia Beach
Circuit Court-Criminal Div	Law Enforcement Facility	2305 Judicial Blvd Fl F13	Virginia Beach
Virginia Beach Sheriff	Law Enforcement Facility	2501 James Madison Dr	Virginia Beach
Virginia Beach Crime Prvtn	Law Enforcement Facility	2509 Princess Anne Rd Bldg 15	Virginia Beach
Virginia Beach Police Dept	Law Enforcement Facility	2509 Princess Anne Rd	Virginia Beach
Virginia Beach Police Dept	Law Enforcement Facility	2599 Dam Neck Rd	Virginia Beach
Virginia Beach SHERIFF Office	Law Enforcement Facility	2650 Leroy Dr Bldg D	Virginia Beach
Virginia Beach Police Aviation	Law Enforcement Facility	2685 Leroy Dr	Virginia Beach
Virginia Beach Sheriff's Office	Law Enforcement Facility	2728 Holland Rd	Virginia Beach
Virginia Beach Police Dept	Law Enforcement Facility	820 Virginia Beach Blvd	Virginia Beach
Virginia Beach Police Dept	Law Enforcement Facility	840 Kempsville Rd	Virginia Beach
Virginia Beach Crime Prevention	Law Enforcement Facility	926 Independence Blvd	Virginia Beach
First Baptist Christian School	School	237 N. Main Street	Suffolk
Pruden Center for Industry and Technology	School	4169 Pruden Boulevard	Suffolk
John F. Kennedy Alternative	School	2325 E. Washington Street	Suffolk
Northern Shores Elementary	School	6701 Respass Beach Road	Suffolk
Booker T. Washington Elementary	School	204 Walnut Street	Suffolk
Driver Elementary	School	4270 Driver Lane	Suffolk
Florence Bowser Elementary	School	4540 Nansemond Parkway	Suffolk
Forest Glen Middle School	School	200 Forest Glen Drive	Suffolk
John F. Kennedy Middle	School	2325 E. Washington Street	Suffolk
Mount Zion Elementary	School	3264 Pruden Boulevard	Suffolk
Oakland Elementary	School	5505 Godwin Boulevard	Suffolk
Robertson Elementary	School	132 Robertson Street	Suffolk
Southwestern Elementary	School	9301 Southwestern Boulevard	Suffolk
Elephant's Fork Elementary	School	2316 William Reid Drive	Suffolk
Kilby Shores Elementary	School	111 Kilby Shores Drive	Suffolk
Nansemond Parkway Elementary	School	3012 Nansemond Parkway	Suffolk
Mack Benn Junior Elementary	School	1253 Nansemond Parkway	Suffolk

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Nansemond River High School	School	3301 Nansemond Parkway	Suffolk
Lakeland High	School	214 Kenyon Road	Suffolk
King's Fork High School	School	351 Kings Fork Road	Suffolk
King's Fork Middle School	School	350 Kings Fork Road	Suffolk
Nansemond-Suffolk Academy	School	3373 Pruden Boulevard	Suffolk
Turlington Woods	School	629 Turlington Road	Suffolk
Sentara Virginia Beach Hospital	Hospital or Medical Care Facility	1060 First Colonial Road	Virginia Beach
Sentara Bayside Hospital	Hospital or Medical Care Facility	800 Independence Boulevard	Virginia Beach
U.S. Coast Guard, Little Creek Station	Port		Virginia Beach
Eastern Shore Railroad, Little Creek Car	Port	2429 Ferry Road	Virginia Beach
Sadler Materials Corp., Little Creek Pla	Port	5899 Ferry Road	Virginia Beach
Marine Contracting Corp., Mooring	Port	2430 Ferry Road	Virginia Beach
Jonathan Corp., Little Creek Yard Pier	Port	2465 Ferry Road	Virginia Beach
U.S. Coast Guard, Little Creek Station	Port		Virginia Beach
Jennings Labs	Water Treatment Facility	1118 Cypress Avenue	Virginia Beach
Virginia Air National Guard	Water Treatment Facility	203 <sup>rd</sup> Red Horse Flight	Virginia Beach
Chesapeake Elizabeth Water Treatment Plant	Wasterwater Treatment Facility	5332 Shore Drive	Virginia Beach
City of Virginia Beach WWTP	Wastewater Treatment Facility	2865 Lee Roy Drive	Virginia Beach
Fort Story – US Army Transport	Wastewater Treament Facility		Virginia Beach
HRSD Atlantic Sewage Treatment Plant	Wastewater Treatment Facility	645 Firewall Drive	Virginia Beach
Industriall Power Gen. Corp. Virginia Beach	Wastewater Treatment Facility	1997 Jake Sears Road	Virginia Beach
Star Enterprise	Oil Refinery	1941 S. Lynnhaven Parkway	Virginia Beach
Virginia Beach Fire Dept	Fire/Rescue Facility	2408 Courthouse Dr Bldg 21	Virginia Beach
Sandridge Fire Station 17	Fire/Rescue Facility	305 Sandbridge Rd	Virginia Beach
Plaza Volunteer Rescue Squad	Fire/Rescue Facility	3610 S Plaza Trl	Virginia Beach
Ocean Park Rescue Squad	Fire/Rescue Facility	3769 Shore Dr	Virginia Beach
Davis Corner Rescue Squad Inc	Fire/Rescue Facility	4672 Haygood Rd	Virginia Beach
Creeds Volunteer Rescue Squad	Fire/Rescue Facility	595 Princess Anne Rd	Virginia Beach
Blackwater Volunteer Fire Dept	Fire/Rescue Facility	6009 Blackwater Rd	Virginia Beach
Creeds Fire Dept	Fire/Rescue Facility	695 Princess Anne Rd	Virginia Beach
Virginia Beach Fire Training	Fire/Rescue Facility	927 S Birdneck Rd Bldg 1	Virginia Beach
Virginia Beach Fire Support	Fire/Rescue Facility	927 S Birdneck Rd Bldg 2	Virginia Beach
Virginia Beach Fire Training Center	Fire/Rescue Facility	927 S Birdneck Rd	Virginia Beach
W.T. Cooke Elementary	School	524 Mediterranean Avenue	Virginia Beach
White Oaks Elementary	School	960 Windsor Oaks Boulevard	Virginia Beach
Williams Elementary	School	892 Newtown Road	Virginia Beach
Windsor Oaks Elementary	School	3800 Vanburen Dirve	Virginia Beach
Windsor Woods Elementary	School	233 Presidential Boulevard	Virginia Beach
Woodstock Elementary	School	6016 Providence Road	Virginia Beach

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Green Run High	School	1700 Dahlia Drive	Virginia Beach
Indian Lakes Elementary	School	1240 Homestead Drive	Virginia Beach
New Castle Elementary	School	3828 Elbow Road	Virginia Beach
Providence Elementary	School	4968 Providence Road	Virginia Beach
Rosemont Elementary	School	1257 Rosemont Road	Virginia Beach
Centerville Elementary	School	2201 Centerville Turnpike	Virginia Beach
Frank W. Cox High	School	2425 Shorehaven Drive	Virginia Beach
Birdneck Elementary	School	957 Birdneck Road	Virginia Beach
Parkway Elementary	School	4180 Ohare Drive	Virginia Beach
Rosemont Forest Elementary	School	1716 Grey Friars Chase	Virginia Beach
Salem Middle	School	2380 Lynnhaven Parkway	Virginia Beach
Salem Elementary	School	3961 Salem Lakes Boulevard	Virginia Beach
Salem High	School	2300 Lynnhaven Parkway	Virginia Beach
Ocean Lakes Elementary	School	1616 Upton Drive	Virginia Beach
Red Mill Elementary	School	1860 Sandbridge Road	Virginia Beach
Tallwood Elementary	School	2025 Kempsville Road	Virginia Beach
Glenwood Elementary	School	2213 Round Hill Drive	Virginia Beach
Saint Gregory the Great School	School	5343 Virginia Beach Boulevard	Virginia Beach
Star of the Sea Elementary School	School	1404 Pacific Avenue	Virginia Beach
Catholic High School	School	4552 Princess Anne Road	Virginia Beach
Holy Trinity Parish School	School	154 W. Government Avenue	Virginia Beach
Cape Henry Collegiate School	School	1320 Mill Dam Road	Virginia Beach
Hebrew Academy of Tidewater	School	1244 Thompkins Lane	Virginia Beach
Virginia Beach Country Day School	School	2100 Harbor Lane	Virginia Beach
Baylake Pines School	School	4444 Shore Drive	Virginia Beach
Tabernacle Baptist Academy	School	717 North Whitehurst Landing Rd	Virginia Beach
Norfolk Christian School –Chapel Campus	School	1265 Laskin Road	Virginia Beach
Chesapeake Bay Academy	School	715 Baker Road	Virginia Beach
Atlantic Shores Christian School	School	1861 Kempsville Road	Virginia Beach
Bayside Village Day School	School	1565 Bradford Road	Virginia Beach
Independence Christian	School	4413 Wishart Road	Virginia Beach
Kings Grant Day School	School	873 Little Neck Road	Virginia Beach
Open Door Christian Academy	School	3177 Virginia Beach Boulevard	Virginia Beach
Rock Church Academy	School	640 Kempsville Road	Virginia Beach
Montessori Children's House	School	700 Hillingdon Court	Virginia Beach
A World of Children	School	3478 Holland Road	Virginia Beach
Academy of Early Learning	School	3560 Chester Street	Virginia Beach
Anchor Military Ministries	School	3624 Dupont Circle	Virginia Beach
Barefoot Kids Inc.	School	1458 Kempsville Road	Virginia Beach
Bellamy Manor School	School	5009 Providence Road	Virginia Beach
Children's House of Galilee	School	40 <sup>th</sup> – Pacific Avenue	Virginia Beach
Courthouse Preschool	School	2708 Princess Anne Road	Virginia Beach
Forever Young Montessori School	School	4604 Pembroke Lake Circle	Virginia Beach
Ivy League Academy	School	520 Constitution Drive	Virginia Beach

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Kempsville Presbyterian Church	School	805 Kempsville Road	Virginia Beach
Kinder Care Learning Center #106	School	3740 Holland Road	Virginia Beach
Kinder Care Learning Center #1238	School	1801 General Booth Boulevard	Virginia Beach
Kinder Care Learning Center #1331	School	704 Hillingdon Court	Virginia Beach
Rainbow Christian Academy	School	3794 Virginia Beach Boulevard	Virginia Beach
Rainbow Preschool – Child Care Center	School	1115 Independence Boulevard	Virginia Beach
Stratford Preschool Baylake United	School	4300 Shore Drive Methodist	Virginia Beach
Sunnybrook Day School Inc	School	3380 Edinburgh Drive	Virginia Beach
Thalia Lynn Child Care Center	School	4392 Virginia Beach Boulevard	Virginia Beach
St. Matthews School	School	3316 Sandra Lane	Virginia Beach
Emmanuel Lutheran School	School	3900 Virginia Beach Boulevard	Virginia Beach
Hope Lutheran Preschool	School	5350 Providence Road	Virginia Beach
Level Green Christian School	School	1305 Level Green Boulevard	Virginia Beach
New Light Baptist School of Excellence	School	5549 Indian River Road	Virginia Beach
Princess Anne High	School	4400 Virginia Beach Boulevard	Virginia Beach
Open Campus	School	1700 Dahlia Drive	Virginia Beach
Tallwood High	School	1668 Kempsville Rd	Virginia Beach
Landstown Middle	School	2204 Recreation Drive	Virginia Beach
Strawbridge Elementary	School	2553 Strawbridge Road	Virginia Beach
Landstown Elementary	School	2212 Recreation Drive	Virginia Beach
Corporate Landing Elementary	School	1590 Corporate Landing Parkway	Virginia Beach
Adult Learning Center	School	4160 Virginia Beach Boulevard	Virginia Beach
Ocean Lakes High School	School	885 Schuman Drive	Virginia Beach
Larkspur Middle	School	4696 Princess Anne Road	Virginia Beach
Kemps Landing Magnet	School	525 Kempsville Road	Virginia Beach
Corporate Landing Magnet	School	1597 Corporate Landing Parkway	Virginia Beach
Christopher Farms Elementary	School	2828 Pleasant Acres Drive	Virginia Beach
Alanton Elementary	School	1441 Stephens Road	Virginia Beach
Arrowhead Elementary	School	5549 Susquehanna Drive	Virginia Beach
Bayside Elementary	School	4722 Jericho Road	Virginia Beach
Bayside High	School	4960 Haygood Road	Virginia Beach
Bayside Middle	School	965 Newtown Road	Virginia Beach
Brandon Middle	School	1700 Pope Street	Virginia Beach
Brookwood Elementary	School	601 S. Lynnhaven Road	Virginia Beach
Center Effective Learning	School	233 N. Witchduck Road	Virginia Beach
College Park Elementary	School	1110 Bennington Road	Virginia Beach
Creeds Elementary	School	920 Princess Anne Road	Virginia Beach
Fairfield Elementary	School	5428 Providence Road	Virginia Beach
First Colonial High	School	1272 Mill Dam Road	Virginia Beach
Floyd Kellam High	School	2323 Holland Road	Virginia Beach
Great Neck Middle	School	1848 Great Neck Road	Virginia Beach



**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Green Run Elementary	School	1200 Green Garden Circle	Virginia Beach
Hermitage Elementary	School	1701 Pleasure House Road	Virginia Beach
Holland Elementary	School	3340 Holland Road	Virginia Beach
Independence Middle	School	1370 Dunstan Lane	Virginia Beach
John B. Dey Elementary	School	1900 Great Neck Road	Virginia Beach
Kempsville Elementary	School	570 Kempsville Road	Virginia Beach
Kempsville High	School	5194 Chief Trail	Virginia Beach
Kempsville Middle	School	860 Churchill Drive	Virginia Beach
Kempsville Meadows Elementary	School	736 Edwin Drive	Virginia Beach
Kings Grant Elementary	School	612 N Lynnhaven Road	Virginia Beach
Kingston Elementary	School	3532 Kings Grant Road	Virginia Beach
Linkhorn Park Elementary	School	977 First Colonial Road	Virginia Beach
Luxford Elementary	School	4808 Haygood Road	Virginia Beach
Lynnhaven Elementary	School	210 Dillon Drive	Virginia Beach
Lynnhaven Middle	School	1250 Bayne Drive	Virginia Beach
Malibu Elementary	School	3632 Edinburgh Drive	Virginia Beach
Newtown Road Elementary	School	900 Newtown Road	Virginia Beach
North Landing Elementary	School	2929 N. Landing Road	Virginia Beach
Old Donation Center	School	1008 Ferry Plantation Road	Virginia Beach
Pembroke Elementary	School	4622 Jericho Road	Virginia Beach
Pembroke Meadows Elementary	School	820 Cathedral Drive	Virginia Beach
Plaza Elementary	School	641 Carriage Hill Road	Virginia Beach
Plaza Middle	School	3080 S. Lynnhaven Road	Virginia Beach
Point O. View Elementary	School	5400 Parliament Drive	Virginia Beach
Princess Anne Elementary	School	2444 Seaboard Road	Virginia Beach
Princess Anne Middle	School	2509 Seaboard Road	Virginia Beach
Seatack Elementary	School	912 S. Birdneck Circle	Virginia Beach
Shelton Park Elementary	School	1700 Shelton Road	Virginia Beach
Thalia Elementary	School	421 Thalia Road	Virginia Beach
Thoroughgood Elementary	School	1444 Dunstan Lane	Virginia Beach
Trantwood Elementary	School	2344 Inlynnview Road	Virginia Beach
Virginia Beach Central Academy	School	273 N. Witchduck Road	Virginia Beach
Virginia Beach Middle	School	600 25 <sup>th</sup> Street	Virginia Beach
Technical & Career Education Center	School	2925 N. Landing Road	Virginia Beach
Windsor Volunteer Fire Dept	Fire/Rescue Facility	80 E Windsor Blvd	Windsor
Windsor Elementary	School	20008 Courthouse Highway	Isle of Wight County
Windsor High School	School	24 Church Street	Windsor
Windsor Middle School	School	26 Church Street	Windsor
Mercer Street Well	Well/Tank	202 Mercer Street	Smithfield
South Church Street Well	Well/Tank	1802 D Douth Church Street	Smithfield
Jersey Park Well	Well	207 West Street	Smithfield
Cary Street Well	Well/Tank	295 Cary Street	Smithfield
Jefferson Drive Well	Well/Tank	307 A Jefferson Drive	Smithfield
Smithfield Administration Building	Town Manager's Office	315 Main Street	Smithfield
Smithfield Administration Building	Planning, Engineering and Public Works	302 Main Street	Smithfield
Smithfield Public Works and	Public Works and Utilities	293 Cary Street	Smithfield

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK**

Jurisdiction: Southside Hampton Roads Region

**TABLE AB-1: SOUTHSIDE HAMPTON ROADS CRITICAL FACILITIES**

FACILITY NAME	FACILITY TYPE	ADDRESS	JURISDICTION
Utilities Building	maintenance building		
Smithfield Medical Center	Medical Facility	919 South Church Street	Smithfield
Windsor Town Hall/Police Department	Adminstration/Police	8 East Windsor Boulevard	Windsor
Windsor Rescue Squad	Rescue	19 East Windsor Boulevard	Windsor
Well #1	Well/Pump Stations	14 Duke Street	Windsor
Well #2	Well/Pump Stations	102 South Court Street	Windsor
Well #3	Well/Pump Stations	42 Duke Street	Windsor
Well #4	Well/Pump Stations	63 North Court	Windsor
Well #5	Well/Pump Stations	11 East Griffin Street	Windsor
Elevated Tank	150,000 Gallon Tank	11 East Griffin Street	Windsor
Elevated Tank	300,000 Gallon Tank	23014 Courthouse Highway	Windsor
Windsor Fire Department	Fire Station	80 East Windsor Boulevard	Windsor
WDSD Elevated Tank	Tank	E. Windsor Boulevard	Isle of Wight County
Camptown	Distribution System		Isle of Wight County
Battery Park Well	Well	Newport Street	Isle of Wight County
Benns Church Development Well	Well	Benns Church Road	Isle of Wight County
Benns Church Subdivision Well	Well	Beechwood Lane	Isle of Wight County
Bethel Heights Well	Well	Comet Road	Isle of Wight County
Carisbrooke Well	Well	Nelson Maine	Isle of Wight County
Carrsville Wells	Well	Community House Drive	Isle of Wight County
Courthouse Well	Well	Courthouse Highway	Isle of Wight County
Days Point Well	Well	Tormentor's Lane	Isle of Wight County
Gatling Pointe Well	Well	Gatling Pointe Parkway	Isle of Wight County
Obrey Well	Well	Obrey Drive	Isle of Wight County
Rushmere Well	Well	Old Stage Highway	Isle of Wight County
Smithfield Heights Well	Well	Smithfield Heights Drive	Isle of Wight County
Thomas Park Well	Well	Griffin Lane	Isle of Wight County
Tormentor Creek Well	Well	Popular Point Lane	Isle of Wight County
Zuni Well	Well	Windsor Boulevard	Isle of Wight County
NDSD Elevated Tank	Tank	Brewers Neck Boulevard	Isle of Wight County
Elevated Tank (Public Utilities Yard)	Tank	Blair's Creek Way	Isle of Wight County
CDSD Elevated Tank	Tank	Carver Road	Isle of Wight County

Source: HAZUS-MH



## LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK

Jurisdiction: Southside Hampton Roads Region

### Instructions for Using the Plan Review Crosswalk for Review of Local Mitigation Plans

Attached is a Plan Review Crosswalk based on the *Multi-Hazard Mitigation Planning Guidance Under the Disaster Mitigation Act of 2004*. This Plan Review Crosswalk is consistent with *44 CFR Part 201 – Mitigation Planning, Interim Final Rule* (the Rule), in accordance with *44 CFR Part 78.5 – Flood Mitigation Plan Development*, in accordance with the *National Flood Insurance Act of 1968* (42 U.S.C. 4104).

#### SCORING SYSTEM

**N – Needs Improvement:** The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.

**S – Satisfactory:** The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Each requirement includes separate elements. All elements of a requirement must be rated "Satisfactory" in order for the requirement to be rated "Satisfactory." A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from being rated "Satisfactory."

When reviewing single jurisdiction plans, reviewers may want to put an N/A in the boxes for multi-jurisdictional plan requirements. When reviewing multi-jurisdictional plans, reviewers may want to put an N/A in the prerequisite box for single jurisdiction plans.

States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create additional sections in the Plan Review Crosswalk to record the score for those requirements.

Optional matrices for assisting in the review of sections on profiling hazards, assessing vulnerability, and identifying and analyzing mitigation measures are included in the Plan Review Crosswalk.

The example below illustrates how to fill in the Plan Review Crosswalk.

#### Example

Assessing Vulnerability: Overview

- Multihazard Requirement §201.6(c)(2)(ii):** *[The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in the risk assessment section. This description shall include an overall summary of each hazard and its impact on the community.*
- FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, ..., and the extent of flood depth and duration.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan include an <b>overall summary</b> description of the jurisdiction's <b>vulnerability</b> to each hazard?	Section II, pp. 4-10	The plan describes the types of assets that are located within geographically defined hazard areas as well as those that would be affected by water.
B. Does the plan address the <b>impact</b> of each hazard on the jurisdiction?	Section II, pp. 10-20	The plan does not address the impact of one of the five hazards analyzed in the plan. <b>Required Revisions:</b> <ul style="list-style-type: none"><li>Include a description of the impact of earthquakes on the assets.</li></ul> <b>Recommended Revisions:</b> <ul style="list-style-type: none"><li>This information can be presented in terms of dollar value or percentage of damage.</li></ul>

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK****FEMA REGION III**

Jurisdiction: Southside Hampton Roads Region

**Local Mitigation Plan Review and Approval Status**

<b>Jurisdiction:</b> Southside Hampton Roads Region	<b>Title of Plan:</b> Southside Hampton Roads Hazard Mitigation Plan	<b>Date of Plan:</b>
<b>Local Point of Contact:</b> Mark Marchbank, C.E.M.	<b>Address:</b> 2408 Courthouse Drive Virginia Beach, VA 23456-9026	
<b>Title:</b> Deputy Coordinator for Emergency Management, City of Virginia Beach		
<b>Agency:</b> City of Virginia Beach		
<b>Phone Number:</b> (757) 427-8466	<b>E-Mail:</b> emgmt@vbgov.com	

<b>State Reviewer:</b>	<b>Title:</b>	<b>Date:</b>
------------------------	---------------	--------------

<b>FEMA Reviewer:</b>	<b>Title:</b>	<b>Date:</b>
<b>Date Received in FEMA Region [Insert #]</b>		
<b>Plan Not Approved</b>		
<b>Plan Approved</b>		
<b>Date Approved</b>		

<b>Jurisdiction:</b>	<b>NFIP Status*</b>			
	<b>Y</b>	<b>N</b>	<b>N/A</b>	<b>CRS Class</b>
1. Isle of Wight County	✓			N/A
2. Norfolk	✓			9
3. Portsmouth	✓			9
4. Smithfield	✓			N/A

**LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK****FEMA REGION III**

Jurisdiction: Southside Hampton Roads Region

5. Suffolk	✓			N/A
6. Windsor	✓			N/A
	NFIP Status			
	Y	N	N/A	CRS Class
7. Virginia Beach	✓			N/A

**\* Notes:****Y = Participating****N = Not Participating****N/A = Not Mapped**

# LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK

FEMA REGION III

Jurisdiction: Southside Hampton Roads Region

## LOCAL MITIGATION PLAN REVIEW SUMMARY

The plan cannot be approved if the plan has not been formally adopted.

Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

### SCORING SYSTEM

Please check one of the following for each requirement.

**N – Needs Improvement:** The plan does not meet the minimum for the requirement.

Reviewer's comments must be provided.

**S – Satisfactory:** The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

#### Prerequisite(s) (Check Applicable Box)

STAFFORD

FMA

NOT MET MET NOT MET MET

#### Adoption by the Local Governing Body:

§201.6(c)(5) and §78.5(f)

--	--	--	--

OR

Multi-Jurisdictional Plan Adoption: §201.6(c)(5) and §78.5(f) **AND**

Multi-Jurisdictional Planning Participation: §201.6(a)(3) and §78.5(a)


#### Planning Process

Documentation of the Planning Process: §201.6(b) and §201.6(c)(1) and §78.5(a)

N	S	N	S

#### Risk Assessment

Identifying Hazards: §201.6(c)(2)(i) and §78.5(b)

Profiling Hazards: §201.6(c)(2)(i) and §78.5(b)

Assessing Vulnerability: Overview: §201.6(c)(2)(ii) and §78.5(b)

Assessing Vulnerability: Identifying Structures: §201.6(c)(2)(ii)(A) and §78.5(b)

Assessing Vulnerability: Estimating Potential Losses: §201.6(c)(2)(ii)(B)

Assessing Vulnerability: Analyzing Development Trends: §201.6(c)(2)(ii)(C)

N	S	N	S

Multi-Jurisdictional Risk Assessment: §201.6(c)(2)(iii) and FEMA 299

--	--	--	--

#### Mitigation Strategy

STAFFORD

FMA

N S N S

Local Hazard Mitigation Goals: §201.6(c)(3)(i) and §78.5(c)

Identification and Analysis of Mitigation Actions: §201.6(c)(3)(ii) and §78.5(d)

Implementation of Mitigation Actions: §201.6(c)(3)(iii) and §78.5(d) and (e)

Multi-Jurisdictional Mitigation Actions: §201.6(c)(3)(iv) and FEMA 299


#### Plan Maintenance Process

STAFFORD

FMA

N S N S

Monitoring, Evaluating, and Updating the Plan: §201.6(c)(4)(i) and §78.5(e)

Incorporation into Existing Planning Mechanisms: §201.6(c)(4)(ii)

Continued Public Involvement: §201.6(c)(4)(iii)


#### Additional State Requirements\*

STAFFORD

FMA

N S N S

Insert State Requirement

Insert State Requirement

Insert State Requirement


#### LOCAL MITIGATION PLAN APPROVAL STATUS

STAFFORD

FMA

PLAN NOT APPROVED

--	--

PLAN APPROVED

--	--

\*States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

See Reviewer's Comments

# MITIGATION ACTION PLANS

## PREREQUISITE(S)

### Adoption by the Local Governing Body

- **Multihazard Requirement §201.6(c)(5):** *[The local hazard mitigation plan **shall** include] documentation that the plan has been approved by the body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).*
- **FMA Requirement §78.5(f):** *Documentation of formal plan adoption by the legal entity submitting the plan (e.g., Governor, Mayor).*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Has the local governing body adopted the plan?		The plan will be adopted upon VDEM and FEMA approval.
B. Is supporting documentation, such as a resolution, included?	Appendix D	Adoption resolutions from each jurisdiction will be included in Appendix D.

SUMMARY

### Multi-Jurisdictional Plan Adoption

- **Multihazard Requirement §201.6(c)(5):** *For multi-jurisdictional plans, each jurisdiction requesting approval of the plan **must** document its adoption.*
- **FMA Requirement §78.5(f):** *Documentation of formal plan adoption by the legal entity submitting the plan (e.g., Governor, Mayor).*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan indicate the specific jurisdictions represented in the plan?	Section 1, page 2	
B. For each jurisdiction, has the local governing body adopted the plan?		Each participating jurisdiction will adopt the plan upon VDEM and FEMA approval.
C. Is supporting documentation, such as a resolution, included for each participating jurisdiction?	Appendix D	Adoption resolutions from each jurisdiction will be included in Appendix D.

SUMMARY

## Multi-Jurisdictional Planning Participation

- **Multihazard Requirement §201.6(a)(3):** Multi-jurisdictional plans (e.g., watershed plans) may be accepted, as appropriate, as long as they are accepted in the process ... Statewide plans will not be accepted as multi-jurisdictional plans.
- **FMA Requirement §78.5(a):** Description of the planning process and public involvement. Public involvement **may** include workshops, public hearings.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan describe <b>how</b> each jurisdiction participated in the plan's development?	Section 2, throughout	

SUMMARY

## PLANNING PROCESS:

## Documentation of the Planning Process

- **Multihazard Requirement §201.6(b):** An open public involvement process is essential to the development of an effective plan. In developing a comprehensive approach to reducing the effects of natural disasters, the planning process **shall** include:
  - (1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;
  - (2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies involved in development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process;
  - (3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.
- **Multihazard Requirement §201.6(c)(1):** [The plan **shall** document] the planning process used to develop the plan, including how the process, and how the public was involved.
- **FMA Requirement §78.5(a):** Description of the planning process and public involvement. Public involvement **may** include workshops, public hearings.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan provide a narrative description of the process followed to prepare the plan?	Section 2, throughout	
B. Does the plan indicate who was involved in the planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?)	Section 2	
C. Does the plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)	Section 2	
D. Was there an opportunity for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process?	Section 2	<b>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</b>
E. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?	Section 2	<b>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</b>

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
---------	--	---------------------

SUMMARY

**RISK ASSESSMENT:** §201.6(c)(2): *The plan shall include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.*

## Identifying Hazards

- **Multihazard Requirement §201.6(c)(2)(i):** *[The risk assessment shall include a] description of the type ... of all natural hazards that affect the jurisdiction.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, including estimates of the repetitive loss properties, and the extent of flood depth and damage potential.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan include a <b>description</b> of the types of <b>all natural hazards</b> that affect the jurisdiction? If the hazard identification omits (without explanation) any hazards commonly recognized as threats to the jurisdiction, this part of the plan cannot receive a Satisfactory score. Consult with the State Hazard Mitigation Officer to identify applicable hazards that may occur in the planning area.	Section 4	

SUMMARY

## Profiling Hazards

- **Multihazard Requirement §201.6(c)(2)(i):** *[The risk assessment shall include a] description of the ... location and extent of all natural hazards that affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, ..., and the damage potential.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the risk assessment identify the <b>location</b> (i.e., geographic area affected) of each natural hazard addressed in the plan?	Section 4	
B. Does the risk assessment identify the <b>extent</b> (i.e., magnitude or severity) of each hazard addressed in the plan?	Section 4	
C. Does the plan provide information on <b>previous occurrences</b> of each hazard addressed in the plan?	Section 4	



D. Does the plan include the <b>probability of future events</b> (i.e., chance of occurrence) for each hazard addressed in the plan?	Section 4	
--	-----------	--

SUMMAR

## Assessing Vulnerability: Overview

- **Multihazard Requirement §201.6(c)(2)(ii):** *[The risk assessment **shall** include a] description of the jurisdiction's vulnerability to (c)(2)(i) of this section. This description **shall** include an overall summary of each hazard and its impact on the community.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, ....., and the extent of*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan include an <b>overall summary</b> description of the jurisdiction's <b>vulnerability</b> to each hazard?	Section 4	
B. Does the plan address the <b>impact</b> of each hazard on the jurisdiction?	Section 4	

SUMMAR

## Assessing Vulnerability: Identifying Structures

- **Multihazard Requirement §201.6(c)(2)(ii)(A):** *The plan **should** describe vulnerability in terms of the types and numbers of existing infrastructure, and critical facilities located in the identified hazard area ... .*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, including **estimates of the risk, repetitive loss properties**,....*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan describe vulnerability in terms of the <b>types and numbers</b> of <b>existing</b> buildings ( <b>including repetitive loss structures</b> ), infrastructure, and critical facilities located in the identified hazard areas?	Section 5	<b>Note: A "Needs Improvement" score on this requirement will not preclude the Stafford p passing.</b>
B. Does the plan describe vulnerability in terms of the <b>types and numbers</b> of <b>future</b> buildings, infrastructure, and critical facilities located in the identified hazard areas?	Section 5	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from</b>

SUMMAR

## Assessing Vulnerability: Estimating Potential Losses

- **Multihazard Requirement §201.6(c)(2)(ii)(B):** *[The plan **should** describe vulnerability in terms of an] estimate of the potential losses identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate ... .*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan estimate <b>potential dollar losses</b> to vulnerable structures?	Section 5	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>
B. Does the plan describe the <b>methodology</b> used to prepare the estimate?	Section 5	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>

SUMMARY

## Assessing Vulnerability: Analyzing Development Trends

- **Multihazard Requirement §201.6(c)(2)(ii)(C):** *[The plan **should** describe vulnerability in terms of] providing a general description of trends within the community so that mitigation options can be considered in future land use decisions.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan describe land uses and development trends?	Section 3 and 5	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>

SUMMARY

## Multi-Jurisdictional Risk Assessment

- **Multihazard Requirement §201.6(c)(2)(iii):** *For multi-jurisdictional plans, the risk assessment **must** assess each jurisdiction's risk facing the entire planning area.*
- **FMA FEMA 299 Guidance:** *The Plan should be coordinated with, and ideally developed in cooperation with, all of the local jurisdictions in the area.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks?	Section 5	<b>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</b>

SUMMARY

**MITIGATION STRATEGY:** §201.6(c)(3): *The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.*

## Local Hazard Mitigation Goals

- **Multihazard Requirement §201.6(c)(3)(i):** *[The hazard mitigation strategy **shall** include a] description of mitigation goals to reduce the identified hazards.*
- **FMA Requirement §78.5(c):** *The applicant's floodplain management goals for the area covered by the plan.*

Location in the

Element	Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan include a description of mitigation <b>goals</b> to reduce or avoid long-term vulnerabilities to the identified hazards? ( <b>GOALS</b> are long-term; represent what the community wants to achieve, such as "eliminate flood damage"; and are based on the risk assessment findings.)	Section 7	

SUMMARY

## Identification and Analysis of Mitigation Actions

- **Multihazard Requirement §201.6(c)(3)(ii):** *[The mitigation strategy **shall** include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure?*
- **FMA Requirement §78.5(d):** *Identification and evaluation of cost-effective and technically feasible mitigation actions considered for implementation.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan identify and analyze a <b>comprehensive range</b> of specific mitigation actions and projects for each hazard?	Appendix A	
B. Do the identified actions and projects address reducing the effects of hazards on <b>new</b> buildings and infrastructure?	Appendix A	<b>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</b>
C. Do the identified actions and projects address reducing the effects of hazards on <b>existing</b> buildings and infrastructure?	Appendix A	

SUMMARY

## Implementation of Mitigation Actions

- **Multihazard Requirement: §201.6(c)(3)(iii):** *[The mitigation strategy section **shall** include] an action plan describing how the actions will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the actions according to a cost benefit review of the proposed projects and their associated costs.*
- **FMA Requirement §78.5(d):** *Identification and evaluation of cost-effective and technically feasible mitigation actions considered for implementation.*
- **FMA Requirement §78.5(e):** *Presentation of the strategy for reducing flood risks and continued compliance with the NFIP, and plan implementation, reviewing progress, and recommending revisions to the plan.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the mitigation strategy include how the actions are <b>prioritized</b> ? (For example, is there a discussion of the process and criteria used?)	Section 7 and Appendix A	<b>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</b>
B. Does the mitigation strategy address how the actions will be <b>implemented and administered</b> ? (For example, does it identify the responsible department, existing and potential resources, and timeframe?)	Section 7 and Appendix A	

B.1. Does the mitigation strategy address continued compliance with the NFIP?	Appendix A	<i>Note: A “Needs Improvement” score on this requirement will not preclude the Stafford plan from passing.</i>
C. Does the prioritization process include an emphasis on the use of a <b>cost-benefit review</b> (see page 3-36 of <i>Multi-Hazard Mitigation Planning Guidance</i> ) to maximize benefits?	Section 7 and Appendix A	<i>Note: A “Needs Improvement” score on this requirement will not preclude the FMA plan from passing.</i>
C.1. Does the mitigation strategy emphasize cost-effective and technically feasible mitigation actions?	Section 7 and Appendix A	<i>Note: A “Needs Improvement” score on this requirement will not preclude the Stafford plan from passing.</i>

SUMMA

## Multi-Jurisdictional Mitigation Actions

- **Multihazard Requirement §201.6(c)(3)(iv):** *For multi-jurisdictional plans, there **must** be identifiable action items specific to the approval or credit of the plan.*
- **FMA FEMA 299 Guidance:** *The Plan should be coordinated with, and ideally developed in cooperation with, all of the local jurisdiction.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan include at least one identifiable <b>action item</b> for each jurisdiction requesting FEMA approval of the plan?	Appendix A	

SUMMARY

## PLAN MAINTENANCE PROCESS

## Monitoring, Evaluating, and Updating the Plan

- **Multihazard Requirement §201.6(c)(4)(i):** *[The plan maintenance process **shall** include a] section describing the method and schedule for updating the mitigation plan within a five-year cycle.*
- **FMA Requirement §78.5(e):** *Presentation of the strategy for reducing flood risks and continued compliance with the NFIP, and plan implementation, reviewing progress, and recommending revisions to the plan.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan describe the method and schedule for <b>monitoring</b> the plan? (For example, does it identify the party responsible for monitoring and include a schedule for reports, site visits, phone calls, and meetings?)	Section 8	
B. Does the plan describe the method and schedule for <b>evaluating</b> the plan? (For example, does it identify the party responsible for evaluating the plan and include the criteria used to evaluate the plan?)	Section 8	
C. Does the plan describe the method and schedule for <b>updating</b> the plan within the five-year cycle?	Section 8	<b>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</b>

SUMMARY

## Incorporation into Existing Planning Mechanisms

- **Multihazard Requirement §201.6(c)(4)(ii):** *[The plan **shall** include a] process by which local governments incorporate the requirements of the plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan identify other local planning mechanisms available for incorporating the requirements of the mitigation plan?	Section 6 and Section 8	<b>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</b>
B. Does the plan include a process by which the local government will incorporate the requirements in other plans, when appropriate?	Section 8 and Appendix A	<b>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</b>

## Continued Public Involvement

- **Multihazard Requirement §201.6(c)(4)(iii):** *[The plan maintenance process **shall** include a] discussion on how the community w plan maintenance process.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments
A. Does the plan explain how <b>continued public participation</b> will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?)	Section 8	<b>Note: A "Needs Improvement" score on thi requirement will not preclude the FMA plan passing.</b>

### Matrix A: Profiling Hazards

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the jurisdiction.

**Completing the matrix is not required.**

**Note:** First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each applicable hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Location		B. Extent		C. Previous Occurrences		D. Probability of Future Events	
	Yes	N	S	N	S	N	S	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Legend:

§201.6(c)(2)(i) Profiling Hazards

- A. Does the risk assessment identify the location (i.e., geographic area affected) of each hazard addressed in the plan?
- B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?
- C. Does the plan provide information on previous occurrences of each natural hazard addressed in the plan?
- D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?

### Matrix B: Assessing Vulnerability

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each requirement. **Completing the matrix is not required.**

**Note:** First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.

**Note:** Receiving an N in the shaded columns will not preclude the plan from passing.

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Overall Summary Description of Vulnerability	B. Hazard Impact		A. Types and Number of Existing Structures in Hazard Area (Estimate)	B. Types and Number of Future Structures in Hazard Area (Estimate)		A. Loss Estimate	B. M
	Yes		N	S		N	S		
Avalanche	<input type="checkbox"/>	§201.6(c)(2)(ii) Assessing Vulnerability: Overview	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Legend:**

§201.6(c)(2)(ii) Assessing Vulnerability: Overview

- A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?
- B. Does the plan address the impact of each hazard on the jurisdiction?

- B. Does the plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?

§201.6(c)(2)(ii)(A) Assessing Vulnerability: Identifying Structures

- A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?

§201.6(c)(2)(ii)(B) Assessing Vulnerability: Estimating Potential Losses

- A. Does the plan estimate potential dollar losses to vulnerable structures?
- B. Does the plan describe the methodology used to prepare the estimate?

**Matrix C: Identification and Analysis of Mitigation Actions**

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure consideration of a range of actions for each hazard. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An "N" for any identified hazard will result in a "Needs Improvement" score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Comprehensive Range of Actions and Projects	
	Yes	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Comprehensive Range of Actions and Projects	
	Yes	N	S
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Legend:**

§201.6(c)(3)(ii) Identification and Analysis of Mitigation  
Actions

A. Does the plan identify and analyze a  
comprehensive range of specific mitigation actions and  
projects for each hazard?

This Appendix provides a copy of the adoption resolutions from each jurisdiction that adopted the plan.  
They are listed as follows:

- Isle of Wight County
- Norfolk
- Portsmouth
- Smithfield
- Suffolk
- Virginia Beach
- Windsor

### PUBLIC PARTICIPATION SURVEY FOR HAZARD MITIGATION PLANNING

#### **We need your help!**

Our community is currently engaged in a planning process to become less vulnerable to disasters, and your participation is important to us!

The City of Virginia Beach, the City of Norfolk, the City of Portsmouth, the City of Suffolk and Isle of Wight County (Including the Towns of Windsor and Smithfield) are working together to prepare a multi-jurisdictional *Hazard Mitigation Plan*. The purpose of this Plan is to identify and assess our community's natural hazard risks (such as floods, hurricanes, nor'easters, and ice storms), and determine how to best minimize or manage those risks. Upon completion, the

Plan will be presented to each local governing body for adoption and submitted to the Virginia Division of Emergency Management and Federal Emergency Management Agency for review and approval.

This survey questionnaire provides an opportunity for you to share your opinions and participate in the mitigation planning process. The information you provide will help us better understand your hazard concerns and can lead to mitigation activities that should help lessen the impact of future hazard events.

**Please help us by completing this survey and returning it to:**

Mark Marchbank, C.E.M.  
City of Virginia Beach Deputy Coordinator, Emergency Management  
Virginia Beach Fire/Office of Emergency Management  
2408 Courthouse Drive #21  
Virginia Beach, Virginia 23456

Surveys can also be faxed to: 757-426-5676

If you have any questions regarding this survey, or would like to learn about more ways you can participate in the development of our Hazard Mitigation Plan, please contact Mark Marchbank at (757) 427-8466 or by e-mail at [emgmt@vbgov.com](mailto:emgmt@vbgov.com).

**1. In what city, town, or County do you live in?**

- ☐ City of Norfolk
- ☐ City of Portsmouth
- ☐ City of Suffolk
- ☐ City of Virginia Beach
- ☐ Isle of Wight County
- ☐ Town of Smithfield
- ☐ Town of Windsor

**2. Have you ever experienced or been impacted by a disaster?**

- ☐ Yes (please explain): \_\_\_\_\_
- ☐ No

3. How concerned are you about the possibility of our community being impacted by a disaster?

- ☐ Extremely concerned  
☐ Somewhat concerned  
☐ Not concerned

4. Please select the one hazard you think is the *highest threat* to your neighborhood:

Natural Hazards
<input type="checkbox"/> Drought
<input type="checkbox"/> Earthquake
<input type="checkbox"/> Erosion
<input type="checkbox"/> Extreme Temperatures
<input type="checkbox"/> Flooding
<input type="checkbox"/> Hurricanes/Tropical Storms
<input type="checkbox"/> Landslides
<input type="checkbox"/> Sinkholes
<input type="checkbox"/> Severe Thunderstorms
<input type="checkbox"/> Tornadoes
<input type="checkbox"/> Wildfires
<input type="checkbox"/> Winter Storms (Ice, Snow)

5. Please select the one hazard you think is the *second highest threat* to your neighborhood:

Natural Hazards
<input type="checkbox"/> Drought
<input type="checkbox"/> Earthquake
<input type="checkbox"/> Erosion
<input type="checkbox"/> Extreme Temperatures
<input type="checkbox"/> Flooding
<input type="checkbox"/> Hurricanes/Tropical Storms
<input type="checkbox"/> Landslides
<input type="checkbox"/> Sinkholes
<input type="checkbox"/> Severe Thunderstorms
<input type="checkbox"/> Tornadoes
<input type="checkbox"/> Wildfires
<input type="checkbox"/> Winter Storms (Ice, Snow)

6. Is there another hazard not listed above that you think is a wide-scale threat to your neighborhood?

- ☐ Yes (please explain): \_\_\_\_\_  
☐ No

**7. Is your home located in a floodplain?**

- ☐ Yes
- ☐ No
- ☐ I don't know

**8. Do you have flood insurance?**

- ☐ Yes
- ☐ No
- ☐ I don't know

**a. If "No", why not?**

- ☐ Not located in floodplain
- ☐ Too expensive
- ☐ Not necessary because it never floods
- ☐ Not necessary because I'm elevated or otherwise protected
- ☐ Never really considered it
- ☐ Other (please explain): \_\_\_\_\_

**9. Have you taken any actions to make your home or neighborhood more resistant to hazards?**

- ☐ Yes
- ☐ No

**a. If "Yes", please explain:****10. Are you interested in making your home or neighborhood more resistant to hazards?**

- ☐ Yes
- ☐ No

**11. What is the most effective way for you to receive information about how to make your home and neighborhood more resistant to hazards?**

- ☐ Newspaper
- ☐ Television
- ☐ Radio
- ☐ Internet
- ☐ Mail
- ☐ Public workshops/meetings
- ☐ Other (please explain): \_\_\_\_\_

**12. In your opinion, what are some steps your local government could take to reduce or eliminate the risk of future hazard damages in your neighborhood?**

**13. Are there any other issues regarding the reduction of risk and loss associated with hazards or disasters in the community that you think are important?**

**14. A number of community-wide activities can reduce our risk from hazards. In general, these activities fall into one of the following six broad categories. Please tell us how important you think each one is for your community to consider pursuing.**

Category	Very Important	Somewhat Important	Not Important
<b><u>1. Prevention</u></b> Administrative or regulatory actions that influence the way land is developed and buildings are built. Examples include planning and zoning, building codes, open space preservation, and floodplain regulations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><u>2. Property Protection</u></b> Actions that involve the modification of existing buildings to protect them from a hazard or removal from the hazard area. Examples include acquisition, relocation, elevation, structural retrofits, and storm shutters.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><u>3. Natural Resource Protection</u></b> Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems. Examples include: floodplain protection, habitat preservation, slope stabilization, riparian buffers, and forest management.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><u>4. Structural Projects</u></b> Actions intended to lessen the impact of a hazard by modifying the natural progression of the hazard. Examples include dams, levees, seawalls, detention/retention basins, channel modification, retaining walls and storm sewers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><u>5. Emergency Services</u></b> Actions that protect people and property during and immediately after a hazard event. Examples include warning systems, evacuation planning, emergency response training, and protection of critical emergency facilities or systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><u>6. Public Education and Awareness</u></b> Actions to inform citizens about hazards and the techniques they can use to protect themselves and their property. Examples include outreach projects, school education programs, library materials and demonstration events.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### THANK YOU FOR YOUR PARTICIPATION!

*This survey may be submitted anonymously, however if you provide us with your name and contact information below we will have the ability to follow up with you to learn more about your ideas or concerns (optional):*

**Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

This appendix includes the following information that was used to develop this Plan:

**Meeting Information**

- Agendas
- Announcements
- Media Coverage
- Sign-in Sheets

**Data Collection Tools**

- Local Capability Assessment Survey
- Mitigation Action Worksheet

## **AGENDA**

### **Southside Hampton Roads Hazard Mitigation Plan Kickoff Meeting July 21, 2005**

#### **I. Introductions**

#### **II. Project Overview**

- a. Scope of work
- b. Project schedule (tasks, meetings & milestones)
- c. Proposed plan outline

#### **III. Roles & Responsibilities**

- a. PBS&J
- b. Participating jurisdictions

#### **IV. Data Collection**

- a. Risk assessment data needs
- b. Capability assessment questionnaires
- c. Identify local data sources (documents, plans, reports, studies, etc.) and recommended points of contact

#### **V. Next Steps**

- a. Establish Mitigation Advisory Committee
  - i. Identify potential stakeholders for involvement
  - ii. Schedule first Mitigation Advisory Committee meeting
- b. Discuss strategies for public awareness / involvement
  - i. Website / newspaper articles
  - ii. Open public meetings
  - iii. Surveys
- c. Initiate data collection efforts

## VI. Questions, Issues or Concerns

### **Southside Hampton Roads Hazard Mitigation Plan**

Mitigation Advisory Committee

*Mitigation Strategy Workshop*

Tuesday October 18, 2005

10:00 a.m. – 2:30 p.m.

### **AGENDA**

VII.	Introduction and Overview	10:00 – 10:15
VIII.	Risk Assessment Findings	10:15 – 11:30
IX.	Capability Assessment Findings	11:30 – 12:00
X.	Lunch	12:00 – 12:30
XI.	Mitigation Strategy Development	12:30 – 2:00
XII.	Next Steps	2:00 – 2:30
	<ul style="list-style-type: none"><li>• Draft review and comments</li><li>• Mitigation Action Worksheets</li><li>• Open Public Meeting</li></ul>	

### **Southside Hampton Roads Hazard Mitigation Plan**

Public Meeting

Tuesday October 18, 2005

Time TBD

### **AGENDA**



- XIII. Introduction and Overview (Usually 15 minutes)
- XIV. Risk Assessment Findings (Usually 10 minutes)
- XV. Public Participation Survey Explanation (Usually 10 minutes)
- XVI. Question and Answer Session



City of Virginia Beach  
City Manager's Office  
Media & Communications Group  
2401 Courthouse Drive, Room 220  
Virginia Beach, VA 23456  
(757) 427-4679 (Office)  
(757) 426-5665 (Fax), 427-4305 (TDD)  
VBgov.com

## NEWS RELEASE

---

### FOR IMMEDIATE RELEASE

October 14, 2005

### MEDIA CONTACT:

Mark Marchbank , (757) 427-8466

### **Citizen Input Requested for Hazard Mitigation Plan**

Residents from the Southside Hampton Roads region (includes the Cities of Norfolk, Portsmouth, Suffolk, Virginia Beach, Isle of Wight County, Windsor, and Smithfield) are invited to bring their local knowledge, ideas and questions concerning weather related disasters to an open public meeting on the development of a Hazard Mitigation Plan for the Southside Hampton Roads region.

This plan is currently being prepared for the region, and resident input is vital to the success of the plan. For convenience, two locations for these public meetings have been scheduled for Tuesday, Oct. 18 from 7 – 9 p.m. at Kempsville Middle School, located at 860 Churchill Drive in Virginia Beach, and Fire Station 3, located at 1001 Whitmarsh Road in Suffolk.

This regional hazard mitigation plan is currently being developed by the Cities of Virginia Beach, Norfolk, Portsmouth, Suffolk, and Isle of Wight County. The ultimate goal of the plan is to minimize or eliminate the long-term risk to human life and property from natural hazards by identifying and implementing cost-effective mitigation actions. Hazards may include, but are not limited to, natural events such as hurricanes, nor'easters, flooding, ice storms, and tornadoes.

- m o r e -

## **Citizen Input Requested for Hazard Mitigation Plan**

**Page 2 of 2**

A FEMA-approved mitigation plan is required for local communities to remain eligible for future grant funds made available through FEMA's Pre-Disaster Mitigation (PDM) program and Hazard Mitigation Grant Program (HMGP). This regional mitigation plan will meet all applicable Federal regulations as defined in the Disaster Mitigation Act of 2000 and local planning requirements established by the Federal Emergency Management Agency (FEMA). From this regional plan, each jurisdiction will create its own separate "mitigation action plan." Upon completion, each local plan will be reviewed, approved and adopted by the local governing body.

###

News Releases: [VBgov.com/Info](http://VBgov.com/Info)

331fire

1-8



## **Virginia Beach Fire Department**

### ***News Release***

FOR IMMEDIATE RELEASE  
November 4, 2005

Media Contact:  
Mark Marchbank, 427-8466  
Barbara A. Morrison, 427-4075

## **Region Emergency Managers Seek Citizens Input Through Hazard Mitigation Planning Survey**

The Southside Hampton Roads Region is currently engaged in a regional planning process to become less vulnerable to disasters. Local emergency managers are seeking input from citizens through the Hazard Mitigation Planning Survey. "Citizen participation and input is vital to the success of the Hazard Mitigation Plan," stated Virginia Beach Fire Chief Greg Cade. "We need to know what the major concerns are of our citizenry, so that we can plan and put into place resources, training, and education programs to address their concerns."

The cities of Virginia Beach, Norfolk, Portsmouth, Suffolk and Isle of Wight County (Including the Towns of Windsor and Smithfield) are working together to prepare a multi-jurisdictional Hazard Mitigation Plan. The purpose of this Plan is to identify and assess the regions natural hazard risks (such as floods, hurricanes, nor'easters, and ice storms), and determine how to best minimize or manage those risks. Upon completion, the Plan will be presented to each local governing body for adoption and submitted to the Virginia Division of Emergency Management and Federal Emergency Management Agency for review and approval.

The Hazard Mitigation Plan survey is simple and only takes 3-5 minutes to complete. Each question must be answered before participants can proceed to the next page. However, participants are able to save their answers and return to the survey at a later time for completion if they are unable to complete the entire survey at one time.

To take the survey simply log on to:

<http://www.co.isle-of-wight.va.us/survey/index.php?sid=2>

- more -

Region Emergency Managers Seek Citizens Input  
Through Hazard Mitigation Planning Survey  
Page 2 of 2

# # #

News Releases: [VBgov.com/Info](http://VBgov.com/Info)

362fire

1-9

